

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 : Q2529

ATTENTION : Marcie Ann Encinas



Laboratory Certification ID # 20012



1) Signature Page	3
2) Case Narrative	4
2.1) VOC-TCLVOA-10- Case Narrative	4
2.2) Gasoline Range Organics- Case Narrative	6
2.3) SVOC-TCL BNA -20- Case Narrative	8
2.4) Pesticide-TCL- Case Narrative	11
2.5) PCB- Case Narrative	13
2.6) Herbicide- Case Narrative	15
2.7) Diesel Range Organics- Case Narrative	17
2.8) Metals-AES- Case Narrative	19
3) Qualifier Page	20
4) QA Checklist	22
5) VOC-TCLVOA-10 Data	23
6) Gasoline Range Organics Data	98
7) SVOC-TCL BNA -20 Data	134
8) Pesticide-TCL Data	240
9) PCB Data	320
10) Herbicide Data	399
11) Diesel Range Organics Data	460
12) Metals-AES Data	514
13) Shipping Document	584
13.1) CHAIN OF CUSTODY	585
13.2) Lab Certificate	586
13.3) Internal COC	587

1
2
3
4
5
6
7
8
9
10
11
12
13

Cover Page

Order ID : Q2529

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number

Q2529-01
Q2529-02
Q2529-03
Q2529-04
Q2529-05
Q2529-06
Q2529-07
Q2529-08
Q2529-09
Q2529-10

Client Sample Number

TP-91
TP-80
TP-79
TP-95
TP-98
TP-102
TP-101
TP-89
TP-33
TP-30

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: 7/22/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q2529

Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 07/08/2025.

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 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_W 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 for {VW0709SBS01} with File ID: VW031769.D met requirements for all samples except for cis-1,2-Dichloroethene[124%] is failing high but no positive hit in associate sample therefore no corrective action taken, while for Methylene Chloride[176%] is failing high and associate sample having positive hit but associated CCAL is passing for same analyte therefore no corrective action taken,

.

The Blank Spike Duplicate met requirements for all samples.

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

The %RSD is greater than 20% in the Initial Calibration method (82W063025S.M) for Methylene Chloride passing on Quadratic Regression.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

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.

Signature_____

CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q2529

Test Name: Gasoline Range Organics

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 07/08/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Gasoline Range Organics. 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 were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

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:

Samples TP-102, TP-89 were directly run in methanol as both low level soil vials did not purge.

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.



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

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

Signature_____

CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q2529

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 07/08/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-TCL BNA -20. 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 df. The samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

The RPD for {Q2517-01MSD} with File ID: BF143061.D met criteria except for 3-Nitroaniline[21%], 4-Chloroaniline[22%], due to difference in results of MS and MSD.

The Blank Spike for {PB168767BS} with File ID: BP025084.D met requirements for all compounds except for 2,4,5-Trichlorophenol[106%], 2,4,6-Trichlorophenol[106%], 2,6-Dinitrotoluene[106%], 4-Nitroaniline[106%], Acenaphthylene[106%], Anthracene[106%], Benzo(a)pyrene[112%], Carbazole[100%], Di-n-butylphthalate[106%], Hexachlorobenzene[100%], Hexachlorocyclopentadiene[209%], Indeno(1,2,3-cd)pyrene[106%], Isophorone[100%], N-Nitrosodiphenylamine[100%] and Pentachlorophenol[106%], are marginally biased high, however they are passing in the Continuous calibration, therefore no corrective action was taken.

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

The % RSD is greater than 20% in the Initial Calibration (8270-BM070825.M) for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression.

The % RSD is greater than 20% in the Initial Calibration (8270-BP070325.M) for 2-Nitrophenol, 2-Nitroaniline, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, Butylbenzylphthalate, Di-n-octyl phthalate these compounds are passing on Linear Regression.

The Continuous Calibration File ID BF143048.D met the requirements except for 2,4-Dinitrophenol and Pentachlorophenol, are biased failing high but no positive hit in associate samples therefore no corrective action taken.

The Continuous Calibration File ID BP025155.D met the requirements except for 2,4-Dinitrophenol, 2-Nitrophenol, 3,3-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, Hexachlorocyclopentadiene and 2,4,6-Tribromophenol, are biased failing high and, Bis(2-ethylhexyl)phthalate is marginally biased high but no positive hit in associated samples therefore no corrective action taken.

The Tuning criteria met requirements.

Sample TP-102 analyzed with direct 5x dilution due to viscous, dirty and concentrated 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.



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

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

Signature_____

CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q2529

Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 07/08/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Pesticide-TCL. 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 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

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.



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

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

Signature_____

CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q2529

Test Name: PCB

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 07/08/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: PCB. 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 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration File ID PP073640.D met the requirements except for Aroclor-1260(Peak-02) is failing in 1st column, however it is passed in 2nd column therefore no corrective action was taken.

E. Additional Comments:

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

F. Manual Integration Comments:



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

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

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

Signature_____

CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q2529

Test Name: Herbicide

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 07/08/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Herbicide. 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 #: 11324. The analysis of Herbicides was based on method 8151A and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Retention Times were met for all analysis.

The MS {Q2529-10MS} with File ID: PS031145.D recoveries met the requirements for all compounds except for [Dinoseb(1)0% - Dinoseb(2)0%] due to matrix interference.

The MSD {Q2529-10MSD} with File ID: PS031146.D recoveries met the requirements for all compounds except for [Dinoseb(1)0% - Dinoseb(2)0%] due to matrix interference.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

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:



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

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

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

Signature_____

CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q2529

Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 07/08/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics. This data package contains results for Diesel Range Organics.

C. Analytical Techniques:

The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302. The analysis were performed on instrument 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 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

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-102 was diluted due to bad matrix. The above sample original run is reported as screening data in miscellaneous data.

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.



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

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

Signature_____

CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q2529

Test Name: Mercury, Metals ICP-TAL

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 07/08/2025.

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 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). 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 analysis met criteria for all parameters.

The Matrix Spike (TP-102MS) analysis met criteria for all parameters except for Antimony, Calcium, Magnesium, Manganese and Sodium due to Chemical Interference during Digestion Process.

The Matrix Spike Duplicate (TP-102MSD) analysis met criteria for all parameters except for Antimony, Calcium, Magnesium and Manganese due to Chemical Interference during Digestion Process.

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

The Calibration met the requirements.

The Serial Dilution met criteria for all parameters.

E. Additional Comments:

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

Signature_____

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

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 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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2529

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 07/22/2025

LAB CHRONICLE

OrderID:	Q2529	OrderDate:	7/8/2025 3:36:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	TP-91	SOIL	VOC-TCLVOA-10	8260D	07/03/25		07/09/25	07/08/25
Q2529-02	TP-80	SOIL	VOC-TCLVOA-10	8260D	07/07/25		07/09/25	07/08/25
Q2529-03	TP-79	SOIL	VOC-TCLVOA-10	8260D	07/07/25		07/09/25	07/08/25
Q2529-04	TP-95	SOIL	VOC-TCLVOA-10	8260D	07/07/25		07/09/25	07/08/25
Q2529-05	TP-98	SOIL	VOC-TCLVOA-10	8260D	07/07/25		07/10/25	07/08/25
Q2529-06	TP-102	SOIL	VOC-TCLVOA-10	8260D	07/07/25		07/10/25	07/08/25
Q2529-07	TP-101	SOIL	VOC-TCLVOA-10	8260D	07/07/25		07/10/25	07/08/25
Q2529-08	TP-89	SOIL	VOC-TCLVOA-10	8260D	07/08/25		07/10/25	07/08/25
Q2529-09	TP-33	SOIL	VOC-TCLVOA-10	8260D	07/08/25		07/10/25	07/08/25
Q2529-10	TP-30	SOIL	VOC-TCLVOA-10	8260D	07/08/25		07/10/25	07/08/25

Hit Summary Sheet SW-846

SDG No.: Q2529
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	TP-91							
Q2529-01	TP-91	SOIL	Naphthalene, 1,6-dimethyl-	* 31.8	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Naphthalene, 2,3-dimethyl-	* 36.0	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Naphthalene, 2,7-dimethyl-	* 15.3	J	0	0	ug/Kg
Total Tics :				83.1				
Total Concentration:				83.1				
Client ID:	TP-80							
Q2529-02	TP-80	SOIL	Acetone	9.30	J	4.80	25.2	ug/Kg
Q2529-02	TP-80	SOIL	Methylene Chloride	9.00	JQ	3.60	10.1	ug/Kg
Total Voc :				18.3				
Total Concentration:				18.3				
Client ID:	TP-79							
Q2529-03	TP-79	SOIL	Methylene Chloride	8.90	Q	3.10	8.90	ug/Kg
Total Voc :				8.90				
Total Concentration:				8.90				
Client ID:	TP-95							
Q2529-04	TP-95	SOIL	Methylene Chloride	8.10	JQ	3.20	8.90	ug/Kg
Total Voc :				8.10				
Total Concentration:				8.10				
Client ID:	TP-98							
Q2529-05	TP-98	SOIL	Hexadecane	* 20.3	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 1,5-dimethyl-	* 33.7	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 2,3-dimethyl-	* 13.6	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 2,6-dimethyl-	* 12.2	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 2-(1-methylethyl)	* 8.00	J	0	0	ug/Kg
Q2529-05	TP-98	SOIL	Naphthalene, 1,6,7-trimethyl-	* 7.70	J	0	0	ug/Kg
Total Tics :				95.5				
Total Concentration:				95.5				
Client ID:	TP-89							
Q2529-08	TP-89	SOIL	Acetone	16.8	J	6.80	35.7	ug/Kg
Q2529-08	TP-89	SOIL	Methylene Chloride	9.30	J	5.00	14.3	ug/Kg
Total Voc :				26.1				
Q2529-08	TP-89	SOIL	n-Hexane	* 7.20	J	0	0	ug/Kg
Total Tics :				7.20				
Total Concentration:				33.3				
Client ID:	TP-33							
Q2529-09	TP-33	SOIL	Acetone	7.40	J	4.20	22.1	ug/Kg
Q2529-09	TP-33	SOIL	Methylene Chloride	4.10	J	3.10	8.80	ug/Kg
Total Voc :				11.5				
Q2529-09	TP-33	SOIL	2-Ethyl-oxetane	* 4.70	J	0	0	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2529

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Tics :				4.70				
Total Concentration:				16.2				

A

B

C

D

E

F

G



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.9
Sample Wt/Vol:	3.13 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
VW031778.D	1	07/09/25 16:02	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.00	U	2.00	8.80	ug/Kg
74-87-3	Chloromethane	2.00	U	2.00	8.80	ug/Kg
75-01-4	Vinyl Chloride	1.40	U	1.40	8.80	ug/Kg
74-83-9	Bromomethane	1.90	U	1.90	8.80	ug/Kg
75-00-3	Chloroethane	2.20	U	2.20	8.80	ug/Kg
75-69-4	Trichlorofluoromethane	2.10	U	2.10	8.80	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.90	U	1.90	8.80	ug/Kg
75-35-4	1,1-Dichloroethene	1.80	U	1.80	8.80	ug/Kg
67-64-1	Acetone	8.30	U	8.30	43.9	ug/Kg
75-15-0	Carbon Disulfide	1.90	U	1.90	8.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.30	U	1.30	8.80	ug/Kg
79-20-9	Methyl Acetate	2.70	U	2.70	8.80	ug/Kg
75-09-2	Methylene Chloride	6.20	UQ	6.20	17.6	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.50	U	1.50	8.80	ug/Kg
75-34-3	1,1-Dichloroethane	1.40	U	1.40	8.80	ug/Kg
110-82-7	Cyclohexane	1.40	U	1.40	8.80	ug/Kg
78-93-3	2-Butanone	11.5	U	11.5	43.9	ug/Kg
56-23-5	Carbon Tetrachloride	1.70	U	1.70	8.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.30	UQ	1.30	8.80	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	8.80	ug/Kg
67-66-3	Chloroform	1.50	U	1.50	8.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.60	U	1.60	8.80	ug/Kg
108-87-2	Methylcyclohexane	1.60	U	1.60	8.80	ug/Kg
71-43-2	Benzene	1.40	U	1.40	8.80	ug/Kg
107-06-2	1,2-Dichloroethane	1.40	U	1.40	8.80	ug/Kg
79-01-6	Trichloroethene	1.40	U	1.40	8.80	ug/Kg
78-87-5	1,2-Dichloropropane	1.60	U	1.60	8.80	ug/Kg
75-27-4	Bromodichloromethane	1.40	U	1.40	8.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.30	U	6.30	43.9	ug/Kg
108-88-3	Toluene	1.40	U	1.40	8.80	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.9
Sample Wt/Vol:	3.13 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
VW031778.D	1	07/09/25 16:02	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.10	U	1.10	8.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.10	U	1.10	8.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.60	U	1.60	8.80	ug/Kg
591-78-6	2-Hexanone	6.50	U	6.50	43.9	ug/Kg
124-48-1	Dibromochloromethane	1.50	U	1.50	8.80	ug/Kg
106-93-4	1,2-Dibromoethane	1.50	U	1.50	8.80	ug/Kg
127-18-4	Tetrachloroethene	1.80	U	1.80	8.80	ug/Kg
108-90-7	Chlorobenzene	1.60	U	1.60	8.80	ug/Kg
100-41-4	Ethyl Benzene	1.20	U	1.20	8.80	ug/Kg
179601-23-1	m/p-Xylenes	2.20	U	2.20	17.6	ug/Kg
95-47-6	o-Xylene	1.40	U	1.40	8.80	ug/Kg
100-42-5	Styrene	1.20	U	1.20	8.80	ug/Kg
75-25-2	Bromoform	1.50	U	1.50	8.80	ug/Kg
98-82-8	Isopropylbenzene	1.40	U	1.40	8.80	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.10	U	2.10	8.80	ug/Kg
541-73-1	1,3-Dichlorobenzene	3.00	U	3.00	8.80	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.70	U	2.70	8.80	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	2.50	8.80	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.20	U	3.20	8.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.20	U	5.20	8.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.60	U	5.60	8.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.0		63 - 155	92%	SPK: 50
1868-53-7	Dibromofluoromethane	43.7		70 - 134	87%	SPK: 50
2037-26-5	Toluene-d8	45.1		74 - 123	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		17 - 146	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	218000	7.965			
540-36-3	1,4-Difluorobenzene	445000	8.855			
3114-55-4	Chlorobenzene-d5	410000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	200000	13.556			
TENTATIVE IDENTIFIED COMPOUNDS						

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.9
Sample Wt/Vol:	3.13 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
VW031778.D	1	07/09/25 16:02	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000575-43-9	Naphthalene, 1,6-dimethyl-	31.8	J		12.8	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	36.0	J		13.3	ug/Kg
000582-16-1	Naphthalene, 2,7-dimethyl-	15.3	J		13.4	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.7
Sample Wt/Vol:	5.47 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
VW031779.D	1	07/09/25 16:24	VW070925

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	0.80	U	0.80	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	9.30	J	4.80	25.2	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.74	U	0.74	5.00	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.00	ug/Kg
75-09-2	Methylene Chloride	9.00	JQ	3.60	10.1	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.87	U	0.87	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.00	ug/Kg
110-82-7	Cyclohexane	0.80	U	0.80	5.00	ug/Kg
78-93-3	2-Butanone	6.60	U	6.60	25.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.98	U	0.98	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.76	UQ	0.76	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.85	U	0.85	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.94	U	0.94	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.92	U	0.92	5.00	ug/Kg
71-43-2	Benzene	0.80	U	0.80	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
79-01-6	Trichloroethene	0.82	U	0.82	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.92	U	0.92	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.79	U	0.79	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.2	ug/Kg
108-88-3	Toluene	0.79	U	0.79	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.7
Sample Wt/Vol:	5.47 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
VW031779.D	1	07/09/25 16:24	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.66	U	0.66	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	0.93	U	0.93	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.2	ug/Kg
124-48-1	Dibromochloromethane	0.88	U	0.88	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.89	U	0.89	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.92	U	0.92	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.68	U	0.68	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.1	ug/Kg
95-47-6	o-Xylene	0.83	U	0.83	5.00	ug/Kg
100-42-5	Styrene	0.72	U	0.72	5.00	ug/Kg
75-25-2	Bromoform	0.87	U	0.87	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.79	U	0.79	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	1.90	U	1.90	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	46.6		63 - 155	93%	SPK: 50
1868-53-7	Dibromofluoromethane	44.8		70 - 134	90%	SPK: 50
2037-26-5	Toluene-d8	44.9		74 - 123	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		17 - 146	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	214000	7.965			
540-36-3	1,4-Difluorobenzene	434000	8.855			
3114-55-4	Chlorobenzene-d5	390000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	192000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.7
Sample Wt/Vol:	5.47	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :	ID : 0.25		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031779.D	1	07/09/25 16:24	VW070925

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	6.21 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
VW031780.D	1	07/09/25 16:46	VW070925

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	8.90	Q	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	0.67	UQ	0.67	4.40	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.40	ug/Kg
67-66-3	Chloroform	0.75	U	0.75	4.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.83	U	0.83	4.40	ug/Kg
108-87-2	Methylcyclohexane	0.81	U	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	6.21 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
VW031780.D	1	07/09/25 16:46	VW070925

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	0.60	U	0.60	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	51.9		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	44.0		70 - 134	88%	SPK: 50
2037-26-5	Toluene-d8	45.8		74 - 123	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		17 - 146	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	191000	7.965			
540-36-3	1,4-Difluorobenzene	403000	8.849			
3114-55-4	Chlorobenzene-d5	368000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	171000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	6.21	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031780.D	1	07/09/25 16:46	VW070925

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	6.68 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
VW031781.D	1	07/09/25 17:08	VW070925

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	0.96	U	0.96	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	0.95	U	0.95	4.50	ug/Kg
75-35-4	1,1-Dichloroethene	0.89	U	0.89	4.50	ug/Kg
67-64-1	Acetone	4.20	U	4.20	22.4	ug/Kg
75-15-0	Carbon Disulfide	0.95	U	0.95	4.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.65	U	0.65	4.50	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.50	ug/Kg
75-09-2	Methylene Chloride	8.10	JQ	3.20	8.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.77	U	0.77	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	5.80	U	5.80	22.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	4.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.67	UQ	0.67	4.50	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.50	ug/Kg
67-66-3	Chloroform	0.75	U	0.75	4.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.83	U	0.83	4.50	ug/Kg
108-87-2	Methylcyclohexane	0.81	U	0.81	4.50	ug/Kg
71-43-2	Benzene	0.71	U	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	0.72	U	0.72	4.50	ug/Kg
78-87-5	1,2-Dichloropropane	0.81	U	0.81	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	22.4	ug/Kg
108-88-3	Toluene	0.70	U	0.70	4.50	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	6.68 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
VW031781.D	1	07/09/25 17:08	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.58	U	0.58	4.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.55	U	0.55	4.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.82	U	0.82	4.50	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.4	ug/Kg
124-48-1	Dibromochloromethane	0.78	U	0.78	4.50	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	4.50	ug/Kg
127-18-4	Tetrachloroethene	0.94	U	0.94	4.50	ug/Kg
108-90-7	Chlorobenzene	0.81	U	0.81	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	8.90	ug/Kg
95-47-6	o-Xylene	0.73	U	0.73	4.50	ug/Kg
100-42-5	Styrene	0.63	U	0.63	4.50	ug/Kg
75-25-2	Bromoform	0.77	U	0.77	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	1.60	U	1.60	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	2.80	U	2.80	4.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.1		63 - 155	112%	SPK: 50
1868-53-7	Dibromofluoromethane	46.6		70 - 134	93%	SPK: 50
2037-26-5	Toluene-d8	47.5		74 - 123	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.5		17 - 146	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	7.959			
540-36-3	1,4-Difluorobenzene	395000	8.855			
3114-55-4	Chlorobenzene-d5	368000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	184000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	6.68	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031781.D	1	07/09/25 17:08	VW070925

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.9
Sample Wt/Vol:	5.54 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
VW031798.D	1	07/10/25 13:25	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.20	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.20	ug/Kg
75-01-4	Vinyl Chloride	0.82	U	0.82	5.20	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.20	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.20	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.20	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.20	ug/Kg
67-64-1	Acetone	4.90	U	4.90	26.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.76	U	0.76	5.20	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.20	ug/Kg
75-09-2	Methylene Chloride	3.70	U	3.70	10.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.89	U	0.89	5.20	ug/Kg
75-34-3	1,1-Dichloroethane	0.83	U	0.83	5.20	ug/Kg
110-82-7	Cyclohexane	0.82	U	0.82	5.20	ug/Kg
78-93-3	2-Butanone	6.80	U	6.80	26.0	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.78	U	0.78	5.20	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.20	ug/Kg
67-66-3	Chloroform	0.87	U	0.87	5.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.97	U	0.97	5.20	ug/Kg
108-87-2	Methylcyclohexane	0.95	U	0.95	5.20	ug/Kg
71-43-2	Benzene	0.82	U	0.82	5.20	ug/Kg
107-06-2	1,2-Dichloroethane	0.82	U	0.82	5.20	ug/Kg
79-01-6	Trichloroethene	0.84	U	0.84	5.20	ug/Kg
78-87-5	1,2-Dichloropropane	0.95	U	0.95	5.20	ug/Kg
75-27-4	Bromodichloromethane	0.81	U	0.81	5.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.70	U	3.70	26.0	ug/Kg
108-88-3	Toluene	0.81	U	0.81	5.20	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.9
Sample Wt/Vol:	5.54 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
VW031798.D	1	07/10/25 13:25	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.68	U	0.68	5.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.64	U	0.64	5.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.96	U	0.96	5.20	ug/Kg
591-78-6	2-Hexanone	3.80	U	3.80	26.0	ug/Kg
124-48-1	Dibromochloromethane	0.90	U	0.90	5.20	ug/Kg
106-93-4	1,2-Dibromoethane	0.91	U	0.91	5.20	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.20	ug/Kg
108-90-7	Chlorobenzene	0.95	U	0.95	5.20	ug/Kg
100-41-4	Ethyl Benzene	0.70	U	0.70	5.20	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.4	ug/Kg
95-47-6	o-Xylene	0.85	U	0.85	5.20	ug/Kg
100-42-5	Styrene	0.74	U	0.74	5.20	ug/Kg
75-25-2	Bromoform	0.89	U	0.89	5.20	ug/Kg
98-82-8	Isopropylbenzene	0.81	U	0.81	5.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1.90	5.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.10	U	3.10	5.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.30	U	3.30	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.5		63 - 155	117%	SPK: 50
1868-53-7	Dibromofluoromethane	46.3		70 - 134	93%	SPK: 50
2037-26-5	Toluene-d8	48.9		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		17 - 146	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	168000	7.965			
540-36-3	1,4-Difluorobenzene	382000	8.855			
3114-55-4	Chlorobenzene-d5	360000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	165000	13.562			
TENTATIVE IDENTIFIED COMPOUNDS						

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.9
Sample Wt/Vol:	5.54 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
VW031798.D	1	07/10/25 13:25	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000571-61-9	Naphthalene, 1,5-dimethyl-	33.7	J		12.8	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	13.6	J		13.3	ug/Kg
000581-42-0	Naphthalene, 2,6-dimethyl-	12.2	J		13.4	ug/Kg
002027-17-0	Naphthalene, 2-(1-methylethyl)-	8.00	J		15.1	ug/Kg
000544-76-3	Hexadecane	20.3	J		15.2	ug/Kg
002245-38-7	Naphthalene, 1,6,7-trimethyl-	7.70	J		15.6	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	95.6
Sample Wt/Vol:	5.73 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
VW031799.D	1	07/10/25 13:47	VW071025

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	0.91	U	0.91	4.60	ug/Kg
67-64-1	Acetone	4.30	U	4.30	22.8	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	9.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.78	U	0.78	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	22.8	ug/Kg
56-23-5	Carbon Tetrachloride	0.89	U	0.89	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.68	U	0.68	4.60	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	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	22.8	ug/Kg
108-88-3	Toluene	0.71	U	0.71	4.60	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	95.6
Sample Wt/Vol:	5.73 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
VW031799.D	1	07/10/25 13:47	VW071025

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	22.8	ug/Kg
124-48-1	Dibromochloromethane	0.79	U	0.79	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.80	U	0.80	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	9.10	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	0.78	U	0.78	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	54.1		63 - 155	108%	SPK: 50
1868-53-7	Dibromofluoromethane	46.4		70 - 134	93%	SPK: 50
2037-26-5	Toluene-d8	45.7		74 - 123	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		17 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	7.965			
540-36-3	1,4-Difluorobenzene	405000	8.849			
3114-55-4	Chlorobenzene-d5	384000	11.636			
3855-82-1	1,4-Dichlorobenzene-d4	173000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	95.6
Sample Wt/Vol:	5.73	Units:	g
Soil Aliquot Vol:		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
GC Column:	RXI-624	Level :	LOW
Prep Method :	ID : 0.25		

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031799.D	1	07/10/25 13:47	VW071025

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.7
Sample Wt/Vol:	5.15 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
VW031800.D	1	07/10/25 14:09	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.40	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.40	ug/Kg
75-01-4	Vinyl Chloride	0.86	U	0.86	5.40	ug/Kg
74-83-9	Bromomethane	1.20	U	1.20	5.40	ug/Kg
75-00-3	Chloroethane	1.40	U	1.40	5.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.40	ug/Kg
67-64-1	Acetone	5.10	U	5.10	27.1	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.79	U	0.79	5.40	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	5.40	ug/Kg
75-09-2	Methylene Chloride	3.80	U	3.80	10.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.93	U	0.93	5.40	ug/Kg
75-34-3	1,1-Dichloroethane	0.87	U	0.87	5.40	ug/Kg
110-82-7	Cyclohexane	0.86	U	0.86	5.40	ug/Kg
78-93-3	2-Butanone	7.10	U	7.10	27.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.81	U	0.81	5.40	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.40	ug/Kg
67-66-3	Chloroform	0.91	U	0.91	5.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.00	U	1.00	5.40	ug/Kg
108-87-2	Methylcyclohexane	0.98	U	0.98	5.40	ug/Kg
71-43-2	Benzene	0.86	U	0.86	5.40	ug/Kg
107-06-2	1,2-Dichloroethane	0.86	U	0.86	5.40	ug/Kg
79-01-6	Trichloroethene	0.88	U	0.88	5.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.98	U	0.98	5.40	ug/Kg
75-27-4	Bromodichloromethane	0.84	U	0.84	5.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.90	U	3.90	27.1	ug/Kg
108-88-3	Toluene	0.84	U	0.84	5.40	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.7
Sample Wt/Vol:	5.15 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
VW031800.D	1	07/10/25 14:09	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.70	U	0.70	5.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.00	U	1.00	5.40	ug/Kg
591-78-6	2-Hexanone	4.00	U	4.00	27.1	ug/Kg
124-48-1	Dibromochloromethane	0.94	U	0.94	5.40	ug/Kg
106-93-4	1,2-Dibromoethane	0.95	U	0.95	5.40	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.40	ug/Kg
108-90-7	Chlorobenzene	0.98	U	0.98	5.40	ug/Kg
100-41-4	Ethyl Benzene	0.73	U	0.73	5.40	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.8	ug/Kg
95-47-6	o-Xylene	0.89	U	0.89	5.40	ug/Kg
100-42-5	Styrene	0.77	U	0.77	5.40	ug/Kg
75-25-2	Bromoform	0.93	U	0.93	5.40	ug/Kg
98-82-8	Isopropylbenzene	0.84	U	0.84	5.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.90	U	1.90	5.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.70	U	1.70	5.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.60	U	1.60	5.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.00	U	2.00	5.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.20	U	3.20	5.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.40	U	3.40	5.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.0		63 - 155	114%	SPK: 50
1868-53-7	Dibromofluoromethane	46.2		70 - 134	92%	SPK: 50
2037-26-5	Toluene-d8	44.9		74 - 123	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		17 - 146	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	174000	7.959			
540-36-3	1,4-Difluorobenzene	405000	8.855			
3114-55-4	Chlorobenzene-d5	379000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	177000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.7
Sample Wt/Vol:	5.15	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031800.D	1	07/10/25 14:09	VW071025

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.1
Sample Wt/Vol:	3.89 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
VW031801.D	1	07/10/25 14:30	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	7.10	ug/Kg
74-87-3	Chloromethane	1.60	U	1.60	7.10	ug/Kg
75-01-4	Vinyl Chloride	1.10	U	1.10	7.10	ug/Kg
74-83-9	Bromomethane	1.50	U	1.50	7.10	ug/Kg
75-00-3	Chloroethane	1.80	U	1.80	7.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.70	U	1.70	7.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.50	U	1.50	7.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.40	U	1.40	7.10	ug/Kg
67-64-1	Acetone	16.8	J	6.80	35.7	ug/Kg
75-15-0	Carbon Disulfide	1.50	U	1.50	7.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.00	U	1.00	7.10	ug/Kg
79-20-9	Methyl Acetate	2.20	U	2.20	7.10	ug/Kg
75-09-2	Methylene Chloride	9.30	J	5.00	14.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.20	U	1.20	7.10	ug/Kg
75-34-3	1,1-Dichloroethane	1.10	U	1.10	7.10	ug/Kg
110-82-7	Cyclohexane	1.10	U	1.10	7.10	ug/Kg
78-93-3	2-Butanone	9.30	U	9.30	35.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.40	U	1.40	7.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.10	U	1.10	7.10	ug/Kg
74-97-5	Bromochloromethane	1.60	U	1.60	7.10	ug/Kg
67-66-3	Chloroform	1.20	U	1.20	7.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.30	U	1.30	7.10	ug/Kg
108-87-2	Methylcyclohexane	1.30	U	1.30	7.10	ug/Kg
71-43-2	Benzene	1.10	U	1.10	7.10	ug/Kg
107-06-2	1,2-Dichloroethane	1.10	U	1.10	7.10	ug/Kg
79-01-6	Trichloroethene	1.20	U	1.20	7.10	ug/Kg
78-87-5	1,2-Dichloropropane	1.30	U	1.30	7.10	ug/Kg
75-27-4	Bromodichloromethane	1.10	U	1.10	7.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	5.10	U	5.10	35.7	ug/Kg
108-88-3	Toluene	1.10	U	1.10	7.10	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.1
Sample Wt/Vol:	3.89 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
VW031801.D	1	07/10/25 14:30	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.93	U	0.93	7.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.88	U	0.88	7.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.30	U	1.30	7.10	ug/Kg
591-78-6	2-Hexanone	5.30	U	5.30	35.7	ug/Kg
124-48-1	Dibromochloromethane	1.20	U	1.20	7.10	ug/Kg
106-93-4	1,2-Dibromoethane	1.30	U	1.30	7.10	ug/Kg
127-18-4	Tetrachloroethene	1.50	U	1.50	7.10	ug/Kg
108-90-7	Chlorobenzene	1.30	U	1.30	7.10	ug/Kg
100-41-4	Ethyl Benzene	0.96	U	0.96	7.10	ug/Kg
179601-23-1	m/p-Xylenes	1.80	U	1.80	14.3	ug/Kg
95-47-6	o-Xylene	1.20	U	1.20	7.10	ug/Kg
100-42-5	Styrene	1.00	U	1.00	7.10	ug/Kg
75-25-2	Bromoform	1.20	U	1.20	7.10	ug/Kg
98-82-8	Isopropylbenzene	1.10	U	1.10	7.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.70	U	1.70	7.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.40	U	2.40	7.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.20	U	2.20	7.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.10	U	2.10	7.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.60	U	2.60	7.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.20	U	4.20	7.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.50	U	4.50	7.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.1		63 - 155	110%	SPK: 50
1868-53-7	Dibromofluoromethane	45.5		70 - 134	91%	SPK: 50
2037-26-5	Toluene-d8	44.9		74 - 123	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		17 - 146	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	175000	7.965			
540-36-3	1,4-Difluorobenzene	393000	8.855			
3114-55-4	Chlorobenzene-d5	366000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	174000	13.556			
TENTATIVE IDENTIFIED COMPOUNDS						

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.1
Sample Wt/Vol:	3.89 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
VW031801.D	1	07/10/25 14:30	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000110-54-3	n-Hexane	7.20	J		5.97	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.5
Sample Wt/Vol:	6.26 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
VW031802.D	1	07/10/25 14:52	VW071025

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	0.94	U	0.94	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	0.88	U	0.88	4.40	ug/Kg
67-64-1	Acetone	7.40	J	4.20	22.1	ug/Kg
75-15-0	Carbon Disulfide	0.94	U	0.94	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.64	U	0.64	4.40	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.40	ug/Kg
75-09-2	Methylene Chloride	4.10	J	3.10	8.80	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	22.1	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	0.80	U	0.80	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	0.71	U	0.71	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	0.80	U	0.80	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	22.1	ug/Kg
108-88-3	Toluene	0.69	U	0.69	4.40	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.5
Sample Wt/Vol:	6.26 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
VW031802.D	1	07/10/25 14:52	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.57	U	0.57	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	0.81	U	0.81	4.40	ug/Kg
591-78-6	2-Hexanone	3.30	U	3.30	22.1	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	0.80	U	0.80	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	8.80	ug/Kg
95-47-6	o-Xylene	0.72	U	0.72	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	56.9		63 - 155	114%	SPK: 50
1868-53-7	Dibromofluoromethane	45.1		70 - 134	90%	SPK: 50
2037-26-5	Toluene-d8	46.2		74 - 123	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		17 - 146	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	175000	7.971			
540-36-3	1,4-Difluorobenzene	394000	8.855			
3114-55-4	Chlorobenzene-d5	367000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	167000	13.556			
TENTATIVE IDENTIFIED COMPOUNDS						

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.5
Sample Wt/Vol:	6.26 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
VW031802.D	1	07/10/25 14:52	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1010386-40-2	2-Ethyl-oxetane	4.70	J		5.97	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	5.2 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
VW031803.D	1	07/10/25 15:14	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.30	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.30	ug/Kg
75-01-4	Vinyl Chloride	0.83	U	0.83	5.30	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.30	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.30	U	1.30	5.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.30	ug/Kg
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.30	ug/Kg
67-64-1	Acetone	5.00	U	5.00	26.3	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.77	U	0.77	5.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.30	ug/Kg
75-09-2	Methylene Chloride	3.70	U	3.70	10.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.90	U	0.90	5.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.84	U	0.84	5.30	ug/Kg
110-82-7	Cyclohexane	0.83	U	0.83	5.30	ug/Kg
78-93-3	2-Butanone	6.90	U	6.90	26.3	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.79	U	0.79	5.30	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.30	ug/Kg
67-66-3	Chloroform	0.88	U	0.88	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.98	U	0.98	5.30	ug/Kg
108-87-2	Methylcyclohexane	0.96	U	0.96	5.30	ug/Kg
71-43-2	Benzene	0.83	U	0.83	5.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.83	U	0.83	5.30	ug/Kg
79-01-6	Trichloroethene	0.85	U	0.85	5.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.96	U	0.96	5.30	ug/Kg
75-27-4	Bromodichloromethane	0.82	U	0.82	5.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	26.3	ug/Kg
108-88-3	Toluene	0.82	U	0.82	5.30	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	5.2 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
VW031803.D	1	07/10/25 15:14	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.68	U	0.68	5.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.65	U	0.65	5.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.97	U	0.97	5.30	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.3	ug/Kg
124-48-1	Dibromochloromethane	0.92	U	0.92	5.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.93	U	0.93	5.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.30	ug/Kg
108-90-7	Chlorobenzene	0.96	U	0.96	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.70	U	0.70	5.30	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.5	ug/Kg
95-47-6	o-Xylene	0.86	U	0.86	5.30	ug/Kg
100-42-5	Styrene	0.75	U	0.75	5.30	ug/Kg
75-25-2	Bromoform	0.90	U	0.90	5.30	ug/Kg
98-82-8	Isopropylbenzene	0.82	U	0.82	5.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.30	U	1.30	5.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.80	5.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.90	U	1.90	5.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.10	U	3.10	5.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.30	U	3.30	5.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.9		63 - 155	110%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	47.5		74 - 123	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		17 - 146	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	174000	7.965			
540-36-3	1,4-Difluorobenzene	377000	8.855			
3114-55-4	Chlorobenzene-d5	354000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	162000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.4
Sample Wt/Vol:	5.2	Units:	g
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-TCLVOA-10

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VW031803.D	1	07/10/25 15:14	VW071025

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

Surrogate Summary

SDG No.: **Q2529**

Client: **CDM Smith**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2529-01	TP-91	1,2-Dichloroethane-d4	50	46.0	92		63	155
		Dibromofluoromethane	50	43.7	87		70	134
		Toluene-d8	50	45.1	90		74	123
		4-Bromofluorobenzene	50	44.7	89		17	146
Q2529-02	TP-80	1,2-Dichloroethane-d4	50	46.6	93		63	155
		Dibromofluoromethane	50	44.8	90		70	134
		Toluene-d8	50	44.9	90		74	123
		4-Bromofluorobenzene	50	45.0	90		17	146
Q2529-03	TP-79	1,2-Dichloroethane-d4	50	51.9	104		63	155
		Dibromofluoromethane	50	44.0	88		70	134
		Toluene-d8	50	45.8	92		74	123
		4-Bromofluorobenzene	50	47.0	94		17	146
Q2529-04	TP-95	1,2-Dichloroethane-d4	50	56.1	112		63	155
		Dibromofluoromethane	50	46.6	93		70	134
		Toluene-d8	50	47.5	95		74	123
		4-Bromofluorobenzene	50	50.5	101		17	146
Q2529-05	TP-98	1,2-Dichloroethane-d4	50	58.5	117		63	155
		Dibromofluoromethane	50	46.3	93		70	134
		Toluene-d8	50	48.9	98		74	123
		4-Bromofluorobenzene	50	52.4	105		17	146
Q2529-06	TP-102	1,2-Dichloroethane-d4	50	54.1	108		63	155
		Dibromofluoromethane	50	46.4	93		70	134
		Toluene-d8	50	45.7	91		74	123
		4-Bromofluorobenzene	50	49.6	99		17	146
Q2529-07	TP-101	1,2-Dichloroethane-d4	50	57.0	114		63	155
		Dibromofluoromethane	50	46.1	92		70	134
		Toluene-d8	50	44.9	90		74	123
		4-Bromofluorobenzene	50	47.3	95		17	146
Q2529-08	TP-89	1,2-Dichloroethane-d4	50	55.1	110		63	155
		Dibromofluoromethane	50	45.5	91		70	134
		Toluene-d8	50	44.9	90		74	123
		4-Bromofluorobenzene	50	48.8	97		17	146
Q2529-09	TP-33	1,2-Dichloroethane-d4	50	56.9	114		63	155
		Dibromofluoromethane	50	45.1	90		70	134
		Toluene-d8	50	46.2	92		74	123
		4-Bromofluorobenzene	50	49.1	98		17	146
Q2529-10	TP-30	1,2-Dichloroethane-d4	50	54.9	110		63	155
		Dibromofluoromethane	50	47.8	96		70	134
		Toluene-d8	50	47.5	95		74	123
		4-Bromofluorobenzene	50	49.8	100		17	146
VW0709SBL01	VW0709SBL01	1,2-Dichloroethane-d4	50	44.4	89		63	155
		Dibromofluoromethane	50	46.0	92		70	134
		Toluene-d8	50	45.6	91		74	123
		4-Bromofluorobenzene	50	41.8	84		17	146
VW0709SBS01	VW0709SBS01	1,2-Dichloroethane-d4	50	58.7	117		63	155
		Dibromofluoromethane	50	57.7	115		70	134
		Toluene-d8	50	58.6	117		74	123
		4-Bromofluorobenzene	50	59.5	119		17	146
VW0710SBL01	VW0710SBL01	1,2-Dichloroethane-d4	50	55.9	112		63	155
		Dibromofluoromethane	50	46.0	92		70	134

Surrogate Summary

SDG No.: Q2529

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
VW0710SBL01	VW0710SBL01	Toluene-d8	50	45.5	91		74	123
		4-Bromofluorobenzene	50	45.6	91		17	146
VW0710SBS01	VW0710SBS01	1,2-Dichloroethane-d4	50	48.8	98		63	155
		Dibromofluoromethane	50	47.6	95		70	134
		Toluene-d8	50	49.3	99		74	123
		4-Bromofluorobenzene	50	51.3	103		17	146
VW0710SBSD0	VW0710SBSD01	1,2-Dichloroethane-d4	50	51.5	103		63	155
		Dibromofluoromethane	50	49.9	100		70	134
		Toluene-d8	50	49.8	100		74	123
		4-Bromofluorobenzene	50	51.9	104		17	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VW031769.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0709SBS01	Dichlorodifluoromethane	20	23.9	ug/Kg	119			64	136	
	Chloromethane	20	23.4	ug/Kg	117			52	151	
	Vinyl chloride	20	24.1	ug/Kg	121			56	148	
	Bromomethane	20	23.2	ug/Kg	116			58	141	
	Chloroethane	20	23.2	ug/Kg	116			69	130	
	Trichlorofluoromethane	20	20.8	ug/Kg	104			69	134	
	1,1,2-Trichlorotrifluoroethane	20	23.9	ug/Kg	119			81	123	
	1,1-Dichloroethene	20	23.8	ug/Kg	119			79	121	
	Acetone	100	130	ug/Kg	130			40	171	
	Carbon disulfide	20	22.8	ug/Kg	114			59	130	
	Methyl tert-butyl Ether	20	24.4	ug/Kg	122			77	129	
	Methyl Acetate	20	23.1	ug/Kg	116			69	149	
	Methylene Chloride	20	35.2	ug/Kg	176		*	72	131	
	trans-1,2-Dichloroethene	20	24.2	ug/Kg	121			80	123	
	1,1-Dichloroethane	20	24.1	ug/Kg	121			82	123	
	Cyclohexane	20	23.8	ug/Kg	119			76	122	
	2-Butanone	100	130	ug/Kg	130			69	131	
	Carbon Tetrachloride	20	22.9	ug/Kg	115			76	129	
	cis-1,2-Dichloroethene	20	24.8	ug/Kg	124		*	82	123	
	Bromochloromethane	20	24.3	ug/Kg	121			80	127	
	Chloroform	20	24.3	ug/Kg	121			82	125	
	1,1,1-Trichloroethane	20	24.6	ug/Kg	123			80	126	
	Methylcyclohexane	20	22.9	ug/Kg	115			77	123	
	Benzene	20	23.9	ug/Kg	119			84	121	
	1,2-Dichloroethane	20	23.4	ug/Kg	117			81	126	
	Trichloroethene	20	22.7	ug/Kg	114			83	122	
	1,2-Dichloropropane	20	23.5	ug/Kg	117			83	122	
	Bromodichloromethane	20	23.3	ug/Kg	117			82	123	
	4-Methyl-2-Pentanone	100	120	ug/Kg	120			70	135	
	Toluene	20	24.1	ug/Kg	121			83	122	
	t-1,3-Dichloropropene	20	23.4	ug/Kg	117			78	124	
	cis-1,3-Dichloropropene	20	23.5	ug/Kg	117			81	122	
	1,1,2-Trichloroethane	20	23.7	ug/Kg	119			82	125	
	2-Hexanone	100	120	ug/Kg	120			66	138	
	Dibromochloromethane	20	22.3	ug/Kg	112			79	125	
	1,2-Dibromoethane	20	23.8	ug/Kg	119			80	125	
	Tetrachloroethene	20	23.7	ug/Kg	119			83	125	
	Chlorobenzene	20	23.8	ug/Kg	119			84	122	
	Ethyl Benzene	20	23.1	ug/Kg	116			82	124	
	m/p-Xylenes	40	46.8	ug/Kg	117			83	124	
	o-Xylene	20	23.7	ug/Kg	119			83	123	
	Styrene	20	23.9	ug/Kg	119			82	124	
	Bromoform	20	23.7	ug/Kg	119			75	127	
	Isopropylbenzene	20	22.7	ug/Kg	114			82	124	
	1,1,2,2-Tetrachloroethane	20	23.3	ug/Kg	117			77	127	
	1,3-Dichlorobenzene	20	24.1	ug/Kg	121			83	122	
	1,4-Dichlorobenzene	20	23.4	ug/Kg	117			84	121	
	1,2-Dichlorobenzene	20	24.3	ug/Kg	121			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VW031769.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VW0709SBS01	1,2-Dibromo-3-Chloropropane	20	21.9	ug/Kg	110			66	134	
	1,2,4-Trichlorobenzene	20	24.2	ug/Kg	121			78	127	
	1,2,3-Trichlorobenzene	20	23.4	ug/Kg	117			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VW031793.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0710SBS01	Dichlorodifluoromethane	20	18.5	ug/Kg	93			64	136	
	Chloromethane	20	19.3	ug/Kg	97			52	151	
	Vinyl chloride	20	20.1	ug/Kg	101			56	148	
	Bromomethane	20	18.8	ug/Kg	94			58	141	
	Chloroethane	20	19.6	ug/Kg	98			69	130	
	Trichlorofluoromethane	20	18.3	ug/Kg	92			69	134	
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/Kg	97			81	123	
	1,1-Dichloroethene	20	20.2	ug/Kg	101			79	121	
	Acetone	100	100	ug/Kg	100			40	171	
	Carbon disulfide	20	18.7	ug/Kg	94			59	130	
	Methyl tert-butyl Ether	20	21.2	ug/Kg	106			77	129	
	Methyl Acetate	20	17.7	ug/Kg	89			69	149	
	Methylene Chloride	20	24.3	ug/Kg	121			72	131	
	trans-1,2-Dichloroethene	20	20.1	ug/Kg	101			80	123	
	1,1-Dichloroethane	20	20.3	ug/Kg	102			82	123	
	Cyclohexane	20	20.2	ug/Kg	101			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	19.6	ug/Kg	98			76	129	
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104			82	123	
	Bromochloromethane	20	20.2	ug/Kg	101			80	127	
	Chloroform	20	21.2	ug/Kg	106			82	125	
	1,1,1-Trichloroethane	20	19.8	ug/Kg	99			80	126	
	Methylcyclohexane	20	20.4	ug/Kg	102			77	123	
	Benzene	20	20.8	ug/Kg	104			84	121	
	1,2-Dichloroethane	20	20.4	ug/Kg	102			81	126	
	Trichloroethene	20	20.4	ug/Kg	102			83	122	
	1,2-Dichloropropane	20	21.1	ug/Kg	106			83	122	
	Bromodichloromethane	20	20.3	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			70	135	
	Toluene	20	20.9	ug/Kg	104			83	122	
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103			78	124	
	cis-1,3-Dichloropropene	20	20.9	ug/Kg	104			81	122	
	1,1,2-Trichloroethane	20	20.6	ug/Kg	103			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	19.4	ug/Kg	97			79	125	
	1,2-Dibromoethane	20	20.5	ug/Kg	103			80	125	
	Tetrachloroethene	20	19.5	ug/Kg	98			83	125	
	Chlorobenzene	20	21.4	ug/Kg	107			84	122	
	Ethyl Benzene	20	22.0	ug/Kg	110			82	124	
	m/p-Xylenes	40	42.3	ug/Kg	106			83	124	
	o-Xylene	20	21.8	ug/Kg	109			83	123	
	Styrene	20	21.4	ug/Kg	107			82	124	
	Bromoform	20	18.0	ug/Kg	90			75	127	
	Isopropylbenzene	20	20.4	ug/Kg	102			82	124	
	1,1,2,2-Tetrachloroethane	20	19.8	ug/Kg	99			77	127	
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100			83	122	
	1,4-Dichlorobenzene	20	19.1	ug/Kg	96			84	121	
	1,2-Dichlorobenzene	20	20.0	ug/Kg	100			83	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VW031793.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VW0710SBS01	1,2-Dibromo-3-Chloropropane	20	18.2	ug/Kg	91			66	134	
	1,2,4-Trichlorobenzene	20	19.4	ug/Kg	97			78	127	
	1,2,3-Trichlorobenzene	20	18.5	ug/Kg	93			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VW031794.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VW0710SBSD01	Dichlorodifluoromethane	20	19.6	ug/Kg	98	5		64	136	20
	Chloromethane	20	19.4	ug/Kg	97	0		52	151	20
	Vinyl chloride	20	20.7	ug/Kg	104	3		56	148	20
	Bromomethane	20	18.6	ug/Kg	93	1		58	141	20
	Chloroethane	20	19.4	ug/Kg	97	1		69	130	20
	Trichlorofluoromethane	20	16.6	ug/Kg	83	10		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.5	ug/Kg	103	6		81	123	20
	1,1-Dichloroethene	20	20.2	ug/Kg	101	0		79	121	20
	Acetone	100	110	ug/Kg	110	10		40	171	20
	Carbon disulfide	20	19.3	ug/Kg	97	3		59	130	20
	Methyl tert-butyl Ether	20	21.6	ug/Kg	108	2		77	129	20
	Methyl Acetate	20	19.0	ug/Kg	95	7		69	149	20
	Methylene Chloride	20	24.4	ug/Kg	122	1		72	131	20
	trans-1,2-Dichloroethene	20	20.6	ug/Kg	103	2		80	123	20
	1,1-Dichloroethane	20	21.2	ug/Kg	106	4		82	123	20
	Cyclohexane	20	21.2	ug/Kg	106	5		76	122	20
	2-Butanone	100	110	ug/Kg	110	0		69	131	20
	Carbon Tetrachloride	20	19.7	ug/Kg	99	1		76	129	20
	cis-1,2-Dichloroethene	20	21.4	ug/Kg	107	3		82	123	20
	Bromochloromethane	20	21.5	ug/Kg	108	7		80	127	20
	Chloroform	20	21.0	ug/Kg	105	1		82	125	20
	1,1,1-Trichloroethane	20	20.0	ug/Kg	100	1		80	126	20
	Methylcyclohexane	20	20.6	ug/Kg	103	1		77	123	20
	Benzene	20	21.2	ug/Kg	106	2		84	121	20
	1,2-Dichloroethane	20	21.3	ug/Kg	106	4		81	126	20
	Trichloroethene	20	19.5	ug/Kg	98	4		83	122	20
	1,2-Dichloropropane	20	21.1	ug/Kg	106	0		83	122	20
	Bromodichloromethane	20	20.8	ug/Kg	104	2		82	123	20
	4-Methyl-2-Pentanone	100	100	ug/Kg	100	0		70	135	20
	Toluene	20	20.7	ug/Kg	104	0		83	122	20
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103	0		78	124	20
	cis-1,3-Dichloropropene	20	21.3	ug/Kg	106	2		81	122	20
	1,1,2-Trichloroethane	20	21.5	ug/Kg	108	5		82	125	20
	2-Hexanone	100	110	ug/Kg	110	0		66	138	20
	Dibromochloromethane	20	20.4	ug/Kg	102	5		79	125	20
	1,2-Dibromoethane	20	20.5	ug/Kg	103	0		80	125	20
	Tetrachloroethene	20	19.2	ug/Kg	96	2		83	125	20
	Chlorobenzene	20	21.2	ug/Kg	106	1		84	122	20
	Ethyl Benzene	20	21.3	ug/Kg	106	4		82	124	20
	m/p-Xylenes	40	41.8	ug/Kg	104	2		83	124	20
	o-Xylene	20	21.1	ug/Kg	106	3		83	123	20
	Styrene	20	21.4	ug/Kg	107	0		82	124	20
	Bromoform	20	19.5	ug/Kg	98	9		75	127	20
	Isopropylbenzene	20	21.1	ug/Kg	106	4		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.3	ug/Kg	106	7		77	127	20
	1,3-Dichlorobenzene	20	21.9	ug/Kg	110	10		83	122	20
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103	7		84	121	20
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104	4		83	124	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>VW031794.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VW0710SBSD01	1,2-Dibromo-3-Chloropropane	20	19.9	ug/Kg	100	9		66	134	20
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99	2		78	127	20
	1,2,3-Trichlorobenzene	20	19.5	ug/Kg	98	5		70	137	20

VOLATILE METHOD BLANK SUMMARY

Client ID

VW0709SBL01

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab File ID: VW031768.D

Lab Sample ID: VW0709SBL01

Date Analyzed: 07/09/2025

Time Analyzed: 10:58

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_W

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW0709SBS01	VW0709SBS01	VW031769.D	07/09/2025
TP-91	Q2529-01	VW031778.D	07/09/2025
TP-80	Q2529-02	VW031779.D	07/09/2025
TP-79	Q2529-03	VW031780.D	07/09/2025
TP-95	Q2529-04	VW031781.D	07/09/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VW0710SBL01

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab File ID: VW031792.D

Lab Sample ID: VW0710SBL01

Date Analyzed: 07/10/2025

Time Analyzed: 10:15

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_W

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW0710SBS01	VW0710SBS01	VW031793.D	07/10/2025
VW0710SBSD01	VW0710SBSD01	VW031794.D	07/10/2025
TP-98	Q2529-05	VW031798.D	07/10/2025
TP-102	Q2529-06	VW031799.D	07/10/2025
TP-101	Q2529-07	VW031800.D	07/10/2025
TP-89	Q2529-08	VW031801.D	07/10/2025
TP-33	Q2529-09	VW031802.D	07/10/2025
TP-30	Q2529-10	VW031803.D	07/10/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab File ID: VW031728.D

BFB Injection Date: 06/30/2025

Instrument ID: MSVOA_W

BFB Injection Time: 08:56

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	19.7
75	30.0 - 60.0% of mass 95	52.1
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	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	65.4
175	5.0 - 9.0% of mass 174	5.4 (8.2) 1
176	95.0 - 101.0% of mass 174	64.8 (99.2) 1
177	5.0 - 9.0% of mass 176	4.1 (6.3) 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
VSTDIC005	VSTDIC005	VW031729.D	06/30/2025	09:54
VSTDIC010	VSTDIC010	VW031730.D	06/30/2025	10:15
VSTDIC020	VSTDIC020	VW031731.D	06/30/2025	10:58
VSTDIC050	VSTDIC050	VW031732.D	06/30/2025	11:21
VSTDIC100	VSTDIC100	VW031733.D	06/30/2025	12:34
VSTDIC150	VSTDIC150	VW031734.D	06/30/2025	12:55

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab File ID: VW031766.D

BFB Injection Date: 07/09/2025

Instrument ID: MSVOA_W

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	18.9
75	30.0 - 60.0% of mass 95	52.1
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	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	68.4
175	5.0 - 9.0% of mass 174	5.3 (7.7) 1
176	95.0 - 101.0% of mass 174	65 (95.1) 1
177	5.0 - 9.0% of mass 176	4.2 (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	VW031767.D	07/09/2025	10:00
VW0709SBL01	VW0709SBL01	VW031768.D	07/09/2025	10:58
VW0709SBS01	VW0709SBS01	VW031769.D	07/09/2025	11:34
TP-91	Q2529-01	VW031778.D	07/09/2025	16:02
TP-80	Q2529-02	VW031779.D	07/09/2025	16:24
TP-79	Q2529-03	VW031780.D	07/09/2025	16:46
TP-95	Q2529-04	VW031781.D	07/09/2025	17:08

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab File ID: VW031790.D

BFB Injection Date: 07/10/2025

Instrument ID: MSVOA_W

BFB Injection Time: 08:16

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	19.3
75	30.0 - 60.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	64.3
175	5.0 - 9.0% of mass 174	4.9 (7.6) 1
176	95.0 - 101.0% of mass 174	63.2 (98.3) 1
177	5.0 - 9.0% of mass 176	3.9 (6.1) 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	VW031791.D	07/10/2025	08:47
VW0710SBL01	VW0710SBL01	VW031792.D	07/10/2025	10:15
VW0710SBS01	VW0710SBS01	VW031793.D	07/10/2025	11:05
VW0710SBSD01	VW0710SBSD01	VW031794.D	07/10/2025	11:33
TP-98	Q2529-05	VW031798.D	07/10/2025	13:25
TP-102	Q2529-06	VW031799.D	07/10/2025	13:47
TP-101	Q2529-07	VW031800.D	07/10/2025	14:09
TP-89	Q2529-08	VW031801.D	07/10/2025	14:30
TP-33	Q2529-09	VW031802.D	07/10/2025	14:52
TP-30	Q2529-10	VW031803.D	07/10/2025	15:14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
Lab Code: ACE SDG NO.: Q2529
Lab File ID: VW031767.D Date Analyzed: 07/09/2025
Instrument ID: MSVOA_W Time Analyzed: 10:00
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	247441	7.96	422710	8.85	377094	11.63
UPPER LIMIT	494882	8.459	845420	9.349	754188	12.129
LOWER LIMIT	123721	7.459	211355	8.349	188547	11.129
EPA SAMPLE NO.						
TP-91	218175	7.97	444599	8.86	410314	11.64
TP-80	214090	7.97	434266	8.86	389918	11.64
TP-79	191026	7.97	402933	8.85	367838	11.64
TP-95	184533	7.96	394765	8.86	367784	11.64
VW0709SBL01	208773	7.97	393637	8.85	349817	11.63
VW0709SBS01	187242	7.95	349121	8.85	314319	11.63

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
 Lab Code: ACE SDG NO.: Q2529
 Lab File ID: VW031767.D Date Analyzed: 07/09/2025
 Instrument ID: MSVOA_W Time Analyzed: 10:00
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	179078	13.556				
UPPER LIMIT	358156	14.056				
LOWER LIMIT	89539	13.056				
EPA SAMPLE NO.						
TP-91	199718	13.56				
TP-80	191888	13.56				
TP-79	171439	13.56				
TP-95	184499	13.56				
VW0709SBL01	163801	13.56				
VW0709SBS01	151914	13.56				

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
Lab Code: ACE SDG NO.: Q2529
Lab File ID: VW031791.D Date Analyzed: 07/10/2025
Instrument ID: MSVOA_W Time Analyzed: 08:47
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	245114	7.97	431816	8.85	372703	11.63
UPPER LIMIT	490228	8.465	863632	9.349	745406	12.129
LOWER LIMIT	122557	7.465	215908	8.349	186352	11.129
EPA SAMPLE NO.						
TP-98	168081	7.97	382359	8.86	360038	11.63
TP-102	185474	7.97	405430	8.85	383839	11.64
TP-101	173749	7.96	404966	8.86	378578	11.64
TP-89	174642	7.97	393151	8.86	366298	11.64
TP-33	174896	7.97	394315	8.86	366550	11.64
TP-30	174243	7.97	376543	8.86	353548	11.64
VW0710SBL01	178449	7.96	403423	8.85	368923	11.64
VW0710SBS01	227800	7.97	411611	8.86	356304	11.64
VW0710SBSD01	226314	7.97	415001	8.85	365558	11.63

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02
Lab Code: ACE SDG NO.: Q2529
Lab File ID: VW031791.D Date Analyzed: 07/10/2025
Instrument ID: MSVOA_W Time Analyzed: 08:47
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	173821	13.556				
UPPER LIMIT	347642	14.056				
LOWER LIMIT	86910.5	13.056				
EPA SAMPLE NO.						
TP-98	165092	13.56				
TP-102	173217	13.56				
TP-101	177324	13.56				
TP-89	174003	13.56				
TP-33	166714	13.56				
TP-30	161581	13.56				
VW0710SBL01	171872	13.56				
VW0710SBS01	178658	13.56				
VW0710SBSD01	173637	13.56				

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0709SBL01	SDG No.:	Q2529
Lab Sample ID:	VW0709SBL01	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
VW031768.D	1	07/09/25 10:58	VW070925

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

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VW0709SBL01		SDG No.:	Q2529
Lab Sample ID:	VW0709SBL01		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
VW031768.D	1	07/09/25 10:58	VW070925

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	44.4		63 - 155	89%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		70 - 134	92%	SPK: 50
2037-26-5	Toluene-d8	45.6		74 - 123	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.8		17 - 146	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	209000	7.965			
540-36-3	1,4-Difluorobenzene	394000	8.849			
3114-55-4	Chlorobenzene-d5	350000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	164000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0709SBL01	SDG No.:	Q2529
Lab Sample ID:	VW0709SBL01	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
VW031768.D	1	07/09/25 10:58	VW070925

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBL01	SDG No.:	Q2529
Lab Sample ID:	VW0710SBL01	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
VW031792.D	1	07/10/25 10:15	VW071025

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBL01	SDG No.:	Q2529
Lab Sample ID:	VW0710SBL01	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
VW031792.D	1	07/10/25 10:15	VW071025

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	55.9		63 - 155	112%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		70 - 134	92%	SPK: 50
2037-26-5	Toluene-d8	45.5		74 - 123	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		17 - 146	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	7.959			
540-36-3	1,4-Difluorobenzene	403000	8.849			
3114-55-4	Chlorobenzene-d5	369000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	172000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBL01	SDG No.:	Q2529
Lab Sample ID:	VW0710SBL01	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
VW031792.D	1	07/10/25 10:15	VW071025

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0709SBS01	SDG No.:	Q2529
Lab Sample ID:	VW0709SBS01	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
VW031769.D	1	07/09/25 11:34	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	23.9		1.10	5.00	ug/Kg
74-87-3	Chloromethane	23.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	24.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	23.2		1.10	5.00	ug/Kg
75-00-3	Chloroethane	23.2		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.8		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	23.9		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	23.8		1.00	5.00	ug/Kg
67-64-1	Acetone	130		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	22.8		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	24.4		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	23.1		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	35.2		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	24.2		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	24.1		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	23.8		0.79	5.00	ug/Kg
78-93-3	2-Butanone	130		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	22.9		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	24.8		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	24.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	24.3		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	24.6		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	22.9		0.91	5.00	ug/Kg
71-43-2	Benzene	23.9		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	23.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	22.7		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	23.5		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	23.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	120		3.60	25.0	ug/Kg
108-88-3	Toluene	24.1		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0709SBS01	SDG No.:	Q2529
Lab Sample ID:	VW0709SBS01	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
VW031769.D	1	07/09/25 11:34	VW070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	23.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	23.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	23.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	120		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	22.3		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	23.8		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	23.7		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	23.8		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	23.1		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	46.8		1.20	10.0	ug/Kg
95-47-6	o-Xylene	23.7		0.82	5.00	ug/Kg
100-42-5	Styrene	23.9		0.71	5.00	ug/Kg
75-25-2	Bromoform	23.7		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	22.7		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	23.3		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	24.1		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	23.4		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	24.3		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.9		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	24.2		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	23.4		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.7		63 - 155	117%	SPK: 50
1868-53-7	Dibromofluoromethane	57.7		70 - 134	115%	SPK: 50
2037-26-5	Toluene-d8	58.6		74 - 123	117%	SPK: 50
460-00-4	4-Bromofluorobenzene	59.5		17 - 146	119%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	187000	7.953			
540-36-3	1,4-Difluorobenzene	349000	8.849			
3114-55-4	Chlorobenzene-d5	314000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	152000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0709SBS01	SDG No.:	Q2529
Lab Sample ID:	VW0709SBS01	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
VW031769.D	1	07/09/25 11:34	VW070925

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBS01	SDG No.:	Q2529
Lab Sample ID:	VW0710SBS01	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
VW031793.D	1	07/10/25 11:05	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.5		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.3		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	18.8		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.6		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.3		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		1.00	5.00	ug/Kg
67-64-1	Acetone	100		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.7		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.2		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	17.7		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	24.3		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.1		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.2		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.8		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	20.2		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.2		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.8		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.4		0.91	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.9		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VW0710SBS01		SDG No.:	Q2529
Lab Sample ID:	VW0710SBS01		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
VW031793.D	1	07/10/25 11:05	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.9		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.6		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.5		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.5		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.4		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	22.0		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.3		1.20	10.0	ug/Kg
95-47-6	o-Xylene	21.8		0.82	5.00	ug/Kg
100-42-5	Styrene	21.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	18.0		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.4		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.8		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	19.1		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.0		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.4		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.5		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.8		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		70 - 134	95%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		17 - 146	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	228000	7.965			
540-36-3	1,4-Difluorobenzene	412000	8.855			
3114-55-4	Chlorobenzene-d5	356000	11.635			
3855-82-1	1,4-Dichlorobenzene-d4	179000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBS01	SDG No.:	Q2529
Lab Sample ID:	VW0710SBS01	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
VW031793.D	1	07/10/25 11:05	VW071025

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBSD01	SDG No.:	Q2529
Lab Sample ID:	VW0710SBSD01	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
VW031794.D	1	07/10/25 11:33	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.6		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.7		0.79	5.00	ug/Kg
74-83-9	Bromomethane	18.6		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.4		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	16.6		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		1.00	5.00	ug/Kg
67-64-1	Acetone	110		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.6		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	19.0		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	24.4		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.2		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	19.7		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.4		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.5		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	20.0		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.6		0.91	5.00	ug/Kg
71-43-2	Benzene	21.2		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	19.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.8		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.7		0.78	5.00	ug/Kg

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	South River WM Replacement		Date Received:	
Client Sample ID:	VW0710SBSD01		SDG No.:	Q2529
Lab Sample ID:	VW0710SBSD01		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
VW031794.D	1	07/10/25 11:33	VW071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.5		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.5		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.2		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.2		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.3		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.8		1.20	10.0	ug/Kg
95-47-6	o-Xylene	21.1		0.82	5.00	ug/Kg
100-42-5	Styrene	21.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.5		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	21.3		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.9		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	20.8		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.8		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.5		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.5		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.8		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		17 - 146	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	226000	7.965			
540-36-3	1,4-Difluorobenzene	415000	8.849			
3114-55-4	Chlorobenzene-d5	366000	11.629			
3855-82-1	1,4-Dichlorobenzene-d4	174000	13.556			

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VW0710SBSD01	SDG No.:	Q2529
Lab Sample ID:	VW0710SBSD01	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
VW031794.D	1	07/10/25 11:33	VW071025

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG No.: Q2529

Instrument ID: MSVOA_W

Calibration Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 09:54 12:55

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

LAB FILE ID:		RRF005 = VW031729.D		RRF010 = VW031730.D		RRF020 = VW031731.D			
		RRF050 = VW031732.D		RRF100 = VW031733.D		RRF150 = VW031734.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.330	0.371	0.352	0.310	0.329	0.351	0.341	6.3	
Chloromethane	0.409	0.410	0.428	0.375	0.405	0.436	0.411	5.1	
Vinyl Chloride	0.523	0.534	0.576	0.514	0.545	0.546	0.540	4	
Bromomethane	0.429	0.431	0.443	0.396	0.412	0.418	0.421	3.9	
Chloroethane	0.370	0.372	0.379	0.347	0.360	0.372	0.367	3.1	
Trichlorofluoromethane	0.509	0.508	0.442	0.469	0.466	0.546	0.490	7.7	
1,1,2-Trichlorotrifluoroethane	0.577	0.563	0.569	0.508	0.517	0.530	0.544	5.4	
1,1-Dichloroethene	0.602	0.625	0.622	0.556	0.581	0.588	0.596	4.4	
Acetone	0.238	0.191	0.171	0.163	0.157	0.144	0.177	18.8	
Carbon Disulfide	1.571	1.588	1.647	1.536	1.590	1.633	1.594	2.5	
Methyl tert-butyl Ether	1.007	1.018	1.038	1.033	0.982	0.988	1.011	2.3	
Methyl Acetate	0.540	0.523	0.498	0.528	0.467	0.485	0.507	5.6	
Methylene Chloride	1.029	0.980	0.905	0.692	0.655	0.626	0.814	21.7	
trans-1,2-Dichloroethene	0.635	0.623	0.667	0.613	0.631	0.629	0.633	2.9	
1,1-Dichloroethane	1.154	1.163	1.219	1.116	1.131	1.153	1.156	3.1	
Cyclohexane	1.175	1.065	1.033	0.937	0.940	0.981	1.022	8.9	
2-Butanone	0.224	0.224	0.221	0.249	0.231	0.237	0.231	4.6	
Carbon Tetrachloride	0.477	0.498	0.498	0.461	0.468	0.485	0.481	3.2	
cis-1,2-Dichloroethene	0.711	0.709	0.754	0.716	0.736	0.740	0.728	2.5	
Bromochloromethane	0.531	0.501	0.535	0.504	0.500	0.489	0.510	3.7	
Chloroform	1.230	1.239	1.299	1.204	1.189	1.208	1.228	3.2	
1,1,1-Trichloroethane	0.933	0.983	0.971	0.925	0.907	0.959	0.946	3.1	
Methylcyclohexane	0.573	0.571	0.604	0.566	0.592	0.619	0.587	3.6	
Benzene	1.410	1.394	1.483	1.375	1.349	1.371	1.397	3.4	
1,2-Dichloroethane	0.490	0.490	0.493	0.464	0.449	0.445	0.472	4.7	
Trichloroethene	0.344	0.346	0.367	0.344	0.337	0.354	0.349	3.1	
1,2-Dichloropropane	0.348	0.344	0.353	0.331	0.324	0.325	0.338	3.7	
Bromodichloromethane	0.509	0.512	0.524	0.511	0.502	0.510	0.511	1.4	
4-Methyl-2-Pentanone	0.285	0.301	0.295	0.313	0.289	0.287	0.295	3.5	
Toluene	0.882	0.898	0.938	0.876	0.874	0.899	0.894	2.7	

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG No.: Q2529

Instrument ID: MSVOA_W

Calibration Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 09:54 12:55

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

LAB FILE ID:		RRF005 = VW031729.D		RRF010 = VW031730.D		RRF020 = VW031731.D		
		RRF050 = VW031732.D		RRF100 = VW031733.D		RRF150 = VW031734.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
t-1,3-Dichloropropene	0.432	0.460	0.491	0.496	0.497	0.500	0.480	5.7
cis-1,3-Dichloropropene	0.514	0.521	0.571	0.549	0.547	0.560	0.544	4.1
1,1,2-Trichloroethane	0.299	0.282	0.299	0.285	0.275	0.273	0.286	4
2-Hexanone	0.185	0.201	0.195	0.219	0.201	0.199	0.200	5.6
Dibromochloromethane	0.329	0.332	0.353	0.352	0.336	0.345	0.341	3
1,2-Dibromoethane	0.288	0.285	0.296	0.290	0.274	0.281	0.286	2.7
Tetrachloroethene	0.331	0.321	0.324	0.314	0.329	0.344	0.327	3.2
Chlorobenzene	1.128	1.116	1.116	1.062	1.078	1.120	1.103	2.4
Ethyl Benzene	1.860	1.899	1.911	1.885	1.934	1.989	1.913	2.3
m/p-Xylenes	0.690	0.730	0.751	0.727	0.750	0.764	0.735	3.6
o-Xylene	0.636	0.654	0.685	0.682	0.705	0.723	0.681	4.7
Styrene	1.066	1.154	1.195	1.209	1.206	1.232	1.177	5.1
Bromoform	0.197	0.202	0.203	0.219	0.215	0.223	0.210	5.1
Isopropylbenzene	3.643	3.549	3.683	3.732	4.080	4.132	3.803	6.4
1,1,2,2-Tetrachloroethane	0.891	0.839	0.812	0.843	0.829	0.852	0.844	3.2
1,3-Dichlorobenzene	1.771	1.705	1.683	1.644	1.681	1.723	1.701	2.5
1,4-Dichlorobenzene	1.815	1.750	1.700	1.702	1.735	1.745	1.741	2.4
1,2-Dichlorobenzene	1.599	1.518	1.511	1.575	1.563	1.563	1.555	2.2
1,2-Dibromo-3-Chloropropane	0.169	0.159	0.153	0.166	0.167	0.174	0.165	4.6
1,2,4-Trichlorobenzene	0.965	0.899	0.929	0.933	1.000	1.028	0.959	5
1,2,3-Trichlorobenzene	0.863	0.865	0.827	0.862	0.944	0.926	0.881	5
1,2-Dichloroethane-d4	0.731	0.732	0.739	0.715	0.702	0.687	0.718	2.8
Dibromofluoromethane	0.322	0.324	0.348	0.324	0.327	0.312	0.326	3.6
Toluene-d8	1.121	1.245	1.290	1.208	1.229	1.193	1.214	4.7
4-Bromofluorobenzene	0.436	0.452	0.463	0.447	0.450	0.434	0.447	2.4

* 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.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>07/09/2025</u> <u>10:00</u>
Lab File ID:	<u>VW031767.D</u>	Init. Calib. Date(s):	<u>06/30/2025</u> <u>06/30/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:54</u> <u>12:55</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.341	0.331		-2.93	20
Chloromethane	0.411	0.384	0.1	-6.57	20
Vinyl Chloride	0.540	0.532		-1.48	20
Bromomethane	0.421	0.386		-8.31	20
Chloroethane	0.367	0.343		-6.54	20
Trichlorofluoromethane	0.490	0.475		-3.06	20
1,1,2-Trichlorotrifluoroethane	0.544	0.529		-2.76	20
1,1-Dichloroethene	0.596	0.593		-0.5	20
Acetone	0.177	0.171		-3.39	20
Carbon Disulfide	1.594	1.557		-2.32	20
Methyl tert-butyl Ether	1.011	1.032		2.08	20
Methyl Acetate	0.507	0.530		4.54	20
Methylene Chloride	0.814	0.724		-11.06	20
trans-1,2-Dichloroethene	0.633	0.619		-2.21	20
1,1-Dichloroethane	1.156	1.146	0.1	-0.87	20
Cyclohexane	1.022	0.962		-5.87	20
2-Butanone	0.231	0.241		4.33	20
Carbon Tetrachloride	0.481	0.516		7.28	20
cis-1,2-Dichloroethene	0.728	0.736		1.1	20
Bromochloromethane	0.510	0.495		-2.94	20
Chloroform	1.228	1.231		0.24	20
1,1,1-Trichloroethane	0.946	0.975		3.07	20
Methylcyclohexane	0.587	0.631		7.5	20
Benzene	1.397	1.463		4.72	20
1,2-Dichloroethane	0.472	0.483		2.33	20
Trichloroethene	0.349	0.365		4.59	20
1,2-Dichloropropane	0.338	0.351		3.85	20
Bromodichloromethane	0.511	0.539		5.48	20
4-Methyl-2-Pentanone	0.295	0.323		9.49	20
Toluene	0.894	0.951		6.38	20
t-1,3-Dichloropropene	0.480	0.527		9.79	20
cis-1,3-Dichloropropene	0.544	0.580		6.62	20
1,1,2-Trichloroethane	0.286	0.298		4.2	20
2-Hexanone	0.200	0.226		13	20
Dibromochloromethane	0.341	0.372		9.09	20
1,2-Dibromoethane	0.286	0.299		4.55	20
Tetrachloroethene	0.327	0.331		1.22	20
Chlorobenzene	1.103	1.179	0.3	6.89	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>07/09/2025 10:00</u>
Lab File ID:	<u>VW031767.D</u>	Init. Calib. Date(s):	<u>06/30/2025 06/30/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:54 12:55</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.913	2.057		7.53	20
m/p-Xylenes	0.735	0.791		7.62	20
o-Xylene	0.681	0.750		10.13	20
Styrene	1.177	1.273		8.16	20
Bromoform	0.210	0.238	0.1	13.33	20
Isopropylbenzene	3.803	4.177		9.83	20
1,1,2,2-Tetrachloroethane	0.844	0.907	0.3	7.46	20
1,3-Dichlorobenzene	1.701	1.802		5.94	20
1,4-Dichlorobenzene	1.741	1.775		1.95	20
1,2-Dichlorobenzene	1.555	1.600		2.89	20
1,2-Dibromo-3-Chloropropane	0.165	0.179		8.48	20
1,2,4-Trichlorobenzene	0.959	1.007		5.01	20
1,2,3-Trichlorobenzene	0.881	1.004		13.96	20
1,2-Dichloroethane-d4	0.718	0.657		-8.5	20
Dibromofluoromethane	0.326	0.327		0.31	20
Toluene-d8	1.214	1.234		1.65	20
4-Bromofluorobenzene	0.447	0.452		1.12	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>07/10/2025 08:47</u>
Lab File ID:	<u>VW031791.D</u>	Init. Calib. Date(s):	<u>06/30/2025 06/30/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:54 12:55</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.341	0.332		-2.64	20
Chloromethane	0.411	0.420	0.1	2.19	20
Vinyl Chloride	0.540	0.564		4.44	20
Bromomethane	0.421	0.402		-4.51	20
Chloroethane	0.367	0.366		-0.27	20
Trichlorofluoromethane	0.490	0.492		0.41	20
1,1,2-Trichlorotrifluoroethane	0.544	0.551		1.29	20
1,1-Dichloroethene	0.596	0.602		1.01	20
Acetone	0.177	0.174		-1.7	20
Carbon Disulfide	1.594	1.572		-1.38	20
Methyl tert-butyl Ether	1.011	1.104		9.2	20
Methyl Acetate	0.507	0.519		2.37	20
Methylene Chloride	0.814	0.823		1.11	20
trans-1,2-Dichloroethene	0.633	0.640		1.11	20
1,1-Dichloroethane	1.156	1.209	0.1	4.59	20
Cyclohexane	1.022	1.029		0.69	20
2-Butanone	0.231	0.241		4.33	20
Carbon Tetrachloride	0.481	0.507		5.41	20
cis-1,2-Dichloroethene	0.728	0.766		5.22	20
Bromochloromethane	0.510	0.525		2.94	20
Chloroform	1.228	1.273		3.66	20
1,1,1-Trichloroethane	0.946	0.972		2.75	20
Methylcyclohexane	0.587	0.637		8.52	20
Benzene	1.397	1.483		6.16	20
1,2-Dichloroethane	0.472	0.498		5.51	20
Trichloroethene	0.349	0.349		0	20
1,2-Dichloropropane	0.338	0.363		7.4	20
Bromodichloromethane	0.511	0.559		9.39	20
4-Methyl-2-Pentanone	0.295	0.312		5.76	20
Toluene	0.894	0.967		8.17	20
t-1,3-Dichloropropene	0.480	0.540		12.5	20
cis-1,3-Dichloropropene	0.544	0.610		12.13	20
1,1,2-Trichloroethane	0.286	0.303		5.94	20
2-Hexanone	0.200	0.219		9.5	20
Dibromochloromethane	0.341	0.365		7.04	20
1,2-Dibromoethane	0.286	0.301		5.24	20
Tetrachloroethene	0.327	0.330		0.92	20
Chlorobenzene	1.103	1.194	0.3	8.25	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>MSVOA_W</u>	Calibration Date/Time:	<u>07/10/2025 08:47</u>
Lab File ID:	<u>VW031791.D</u>	Init. Calib. Date(s):	<u>06/30/2025 06/30/2025</u>
Heated Purge: (Y/N)	<u>Y</u>	Init. Calib. Time(s):	<u>09:54 12:55</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.913	2.125		11.08	20
m/p-Xylenes	0.735	0.834		13.47	20
o-Xylene	0.681	0.781		14.68	20
Styrene	1.177	1.307		11.05	20
Bromoform	0.210	0.217	0.1	3.33	20
Isopropylbenzene	3.803	4.324		13.7	20
1,1,2,2-Tetrachloroethane	0.844	0.925	0.3	9.6	20
1,3-Dichlorobenzene	1.701	1.790		5.23	20
1,4-Dichlorobenzene	1.741	1.807		3.79	20
1,2-Dichlorobenzene	1.555	1.645		5.79	20
1,2-Dibromo-3-Chloropropane	0.165	0.173		4.85	20
1,2,4-Trichlorobenzene	0.959	1.053		9.8	20
1,2,3-Trichlorobenzene	0.881	0.966		9.65	20
1,2-Dichloroethane-d4	0.718	0.700		-2.51	20
Dibromofluoromethane	0.326	0.329		0.92	20
Toluene-d8	1.214	1.231		1.4	20
4-Bromofluorobenzene	0.447	0.459		2.68	20

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

LAB CHRONICLE

OrderID:	Q2529	OrderDate:	7/8/2025 3:36:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	TP-91	SOIL			07/03/25			07/08/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-02	TP-80	SOIL			07/07/25			07/08/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-03	TP-79	SOIL			07/07/25			07/08/25
			Gasoline Range Organics	8015D			07/11/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-04	TP-95	SOIL			07/07/25			07/08/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-05	TP-98	SOIL			07/07/25			07/08/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-06	TP-102	SOIL			07/07/25			07/08/25
			Gasoline Range Organics	8015D			07/11/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-07	TP-101	SOIL			07/07/25			07/08/25
			Gasoline Range Organics	8015D			07/10/25	

LAB CHRONICLE

Q2529-08	TP-89	SOIL	PCB	8082A	07/09/25	07/09/25	07/08/25	07/08/25
			Pesticide-TCL	8081B	07/09/25	07/09/25		
			Gasoline Range Organics	8015D		07/11/25		
Q2529-09	TP-33	SOIL	PCB	8082A	07/09/25	07/09/25	07/08/25	07/08/25
			Pesticide-TCL	8081B	07/09/25	07/09/25		
			Gasoline Range Organics	8015D		07/11/25		
Q2529-10	TP-30	SOIL	PCB	8082A	07/09/25	07/09/25	07/08/25	07/08/25
			Pesticide-TCL	8081B	07/09/25	07/09/25		
			Gasoline Range Organics	8015D		07/10/25		
			PCB	8082A	07/09/25	07/09/25		
			Pesticide-TCL	8081B	07/09/25	07/09/25		



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.9
Sample Wt/Vol:	4.11	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		PH :	
Prep Method :		Decanted:	
		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032074.D	1	07/10/25 17:20	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	U	11.0	60.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.8		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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.7
Sample Wt/Vol:	5.25	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		PH :	
Prep Method :		Decanted:	
		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032075.D	1	07/10/25 17:48	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	47.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.6		50 - 150	83%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.6
Sample Wt/Vol:	5.25	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		PH :	
Prep Method :		Decanted:	
		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032090.D	1	07/11/25 11:50	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	47.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.0		50 - 150	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	83.7
Sample Wt/Vol:	5.25	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032077.D	1	07/10/25 18:43	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	51.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	14.3		50 - 150	71%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	86.9
Sample Wt/Vol:	6.5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		PH :	
Prep Method :		Decanted:	
		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032078.D	1	07/10/25 19:10	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	7.00	U	7.00	40.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.4		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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	95.6
Sample Wt/Vol:	4.87	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		PH :	
Prep Method :		Decanted:	
		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032094.D	50	07/11/25 13:40	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	444	U	444	2420	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	21.1		50 - 150	105%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	89.7
Sample Wt/Vol:	4.72	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		PH :	
Prep Method :		Decanted:	
		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032080.D	1	07/10/25 20:05	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	10.0	U	10.0	53.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.6		50 - 150	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.1
Sample Wt/Vol:	4.87 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	5 mL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032095.D	50	07/11/25 14:08	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	471	U	471	2560	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	21.7		50 - 150	109%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.5
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032093.D	1	07/11/25 13:13	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	50.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	24.2		50 - 150	121%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	91.4
Sample Wt/Vol:	5.18	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		PH :	
Prep Method :		Decanted:	
		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032083.D	1	07/10/25 21:28	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	48.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.6		50 - 150	83%	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

SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No.: Q2529

CLIENT ID	S1 AAA-TFT	S2	S3	S4	TOT OUT
VBF0710S1	92				0
BSF0710S1	101				0
BSF0710S2	96				0
TP-91	89				0
TP-80	83				0
TP-95	71				0
TP-98	82				0
TP-101	88				0
TP-30	83				0
VBF0711S1	93				0
VBF0711S2	68				0
BSF0711S1	96				0
TP-79	85				0
TP-33	121				0
TP-102	105				0
TP-89	109				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

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

Lab Name: Alliance **Client:** CDM Smith
Lab Code: ACE **SDG No:** Q2529
Client Sample ID : BSF0710S1 **Datafile:** FB032062.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	155	86	50-150

A

B

C

D

E

F

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

Lab Name: Alliance **Client:** CDM Smith
Lab Code: ACE **SDG No:** Q2529
Client Sample ID : BSF0710S2 **Datafile:** FB032070.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	155	86	50-150

LCS/LCSD % Recovery RPD : 0

A

B

C

D

E

F

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

Lab Name: Alliance **Client:** CDM Smith
Lab Code: ACE **SDG No:** Q2529
Client Sample ID : BSF0711S1 **Datafile:** FB032089.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	150	83	50-150

A

B

C

D

E

F

METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0710S1

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab File ID: FB032060.D

Lab Sample ID: VBF0710S1

Date Analyzed: 07/10/25

Time Analyzed: 9:50

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
BSF0710S1	BSF0710S1	FB032062.D	07/10/25
BSF0710S2	BSF0710S2	FB032070.D	07/10/25
TP-91	Q2529-01	FB032074.D	07/10/25
TP-80	Q2529-02	FB032075.D	07/10/25
TP-95	Q2529-04	FB032077.D	07/10/25
TP-98	Q2529-05	FB032078.D	07/10/25
TP-101	Q2529-07	FB032080.D	07/10/25
TP-30	Q2529-10	FB032083.D	07/10/25

COMMENTS: _____

METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0711S1

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab File ID: FB032087.D

Lab Sample ID: VBF0711S1

Date Analyzed: 07/11/25

Time Analyzed: 10:11

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
BSF0711S1	BSF0711S1	FB032089.D	07/11/25
TP-79	Q2529-03	FB032090.D	07/11/25
TP-33	Q2529-09	FB032093.D	07/11/25

COMMENTS: _____

METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0711S2

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab File ID: FB032088.D

Lab Sample ID: VBF0711S2

Date Analyzed: 07/11/25

Time Analyzed: 10:39

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
TP-102	Q2529-06	FB032094.D	07/11/25
TP-89	Q2529-08	FB032095.D	07/11/25

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0710S1	SDG No.:	Q2529
Lab Sample ID:	VBF0710S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032060.D	1	07/10/25 9:50	FB071025

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	18.4		50 - 150	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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0711S1	SDG No.:	Q2529
Lab Sample ID:	VBF0711S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Decanted:	
GPC Factor :		Final Vol:	5
Prep Method :		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032087.D	1	07/11/25 10:11	FB071125

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	18.7		50 - 150	93%	SPK: 20

Comments:

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0711S2	SDG No.:	Q2529
Lab Sample ID:	VBF0711S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032088.D	50	07/11/25 10:39	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	413	U	413	2250	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	13.7		50 - 150	68%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0710S1	SDG No.:	Q2529
Lab Sample ID:	BSF0710S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032062.D	1	07/10/25 10:45	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	155		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.2		50 - 150	101%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0711S1	SDG No.:	Q2529
Lab Sample ID:	BSF0711S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032089.D	1	07/11/25 11:06	FB071125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	150		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.3		50 - 150	96%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0710S2	SDG No.:	Q2529
Lab Sample ID:	BSF0710S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Decanted:	
GPC Factor :		Final Vol:	5
Prep Method :			mL
		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032070.D	1	07/10/25 14:54	FB071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	155		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.2		50 - 150	96%	SPK: 20

Comments:

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

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



CALIBRATION SUMMARY

GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2529

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	

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.: Q2529
 DataFile: FB032059.D Analyst Name: YP/AJ Analyst Date: 07-10-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4467208	24818	29754	16.589

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.: Q2529
DataFile: FB032071.D Analyst Name: YP/AJ Analyst Date: 07-10-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4595160	25529	29754	14.2

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.: Q2529
DataFile: FB032085.D Analyst Name: YP/AJ Analyst Date: 07-10-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4594906	25527	29754	14.206

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.: Q2529
DataFile: FB032086.D Analyst Name: YP/AJ Analyst Date: 07-11-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4417424	24541	29754	17.52

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.: Q2529
DataFile: FB032097.D Analyst Name: YP/AJ Analyst Date: 07-11-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4631728	25732	29754	13.518

Analytical Sequence

Client: CDM Smith

SDG No.: Q2529

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	10 Jul 2025 9:08	FB032059.D	8.796	
VBF0710S1	VBF0710S1	10 Jul 2025 9:50	FB032060.D	8.797	
BSF0710S1	BSF0710S1	10 Jul 2025 10:45	FB032062.D	8.798	
BSF0710S2	BSF0710S2	10 Jul 2025 14:54	FB032070.D	8.799	
20 PPB GRO STD	20 PPB GRO STD	10 Jul 2025 15:22	FB032071.D	8.800	
TP-91	Q2529-01	10 Jul 2025 17:20	FB032074.D	8.801	
TP-80	Q2529-02	10 Jul 2025 17:48	FB032075.D	8.802	
TP-95	Q2529-04	10 Jul 2025 18:43	FB032077.D	8.801	
TP-98	Q2529-05	10 Jul 2025 19:10	FB032078.D	8.801	
TP-101	Q2529-07	10 Jul 2025 20:05	FB032080.D	8.801	
TP-30	Q2529-10	10 Jul 2025 21:28	FB032083.D	8.800	
20 PPB GRO STD	20 PPB GRO STD	10 Jul 2025 23:17	FB032085.D	8.799	
20 PPB GRO STD	20 PPB GRO STD	11 Jul 2025 9:30	FB032086.D	8.794	
VBF0711S1	VBF0711S1	11 Jul 2025 10:11	FB032087.D	8.797	
VBF0711S2	VBF0711S2	11 Jul 2025 10:39	FB032088.D	8.797	
BSF0711S1	BSF0711S1	11 Jul 2025 11:06	FB032089.D	8.798	
TP-79	Q2529-03	11 Jul 2025 11:50	FB032090.D	8.797	
TP-33	Q2529-09	11 Jul 2025 13:13	FB032093.D	8.798	
TP-102	Q2529-06	11 Jul 2025 13:40	FB032094.D	8.799	
TP-89	Q2529-08	11 Jul 2025 14:08	FB032095.D	8.797	
20 PPB GRO STD	20 PPB GRO STD	11 Jul 2025 15:03	FB032097.D	8.801	

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

QC Limits
(± 0.10 minutes)

Lower Limit
8.698

Upper Limits
8.898

LAB CHRONICLE

OrderID:	Q2529	OrderDate:	7/8/2025 3:36:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	TP-91	SOIL	SVOC-TCL BNA -20	8270E	07/03/25	07/09/25	07/10/25	07/08/25
Q2529-02	TP-80	SOIL	SVOC-TCL BNA -20	8270E	07/07/25	07/09/25	07/16/25	07/08/25
Q2529-03	TP-79	SOIL	SVOC-TCL BNA -20	8270E	07/07/25	07/09/25	07/10/25	07/08/25
Q2529-04	TP-95	SOIL	SVOC-TCL BNA -20	8270E	07/07/25	07/09/25	07/10/25	07/08/25
Q2529-05	TP-98	SOIL	SVOC-TCL BNA -20	8270E	07/07/25	07/09/25	07/10/25	07/08/25
Q2529-06	TP-102	SOIL	SVOC-TCL BNA -20	8270E	07/07/25	07/09/25	07/09/25	07/08/25
Q2529-07	TP-101	SOIL	SVOC-TCL BNA -20	8270E	07/07/25	07/09/25	07/09/25	07/08/25
Q2529-08	TP-89	SOIL	SVOC-TCL BNA -20	8270E	07/08/25	07/09/25	07/10/25	07/08/25
Q2529-09	TP-33	SOIL	SVOC-TCL BNA -20	8270E	07/08/25	07/09/25	07/10/25	07/08/25
Q2529-10	TP-30	SOIL	SVOC-TCL BNA -20	8270E	07/08/25	07/09/25	07/10/25	07/08/25

Hit Summary Sheet
SW-846

SDG No.: Q2529
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-91								
Q2529-01	TP-91	SOIL	Fluoranthene	200.000		33	190	ug/Kg
Q2529-01	TP-91	SOIL	Pyrene	170.000	J	39.6	190	ug/Kg
Q2529-01	TP-91	SOIL	Benzo(a)anthracene	100.000	J	25.3	190	ug/Kg
Q2529-01	TP-91	SOIL	Chrysene	130.000	J	21.9	190	ug/Kg
Q2529-01	TP-91	SOIL	Benzo(b)fluoranthene	190.000		20.9	190	ug/Kg
Q2529-01	TP-91	SOIL	Benzo(a)pyrene	120.000	JQ	32.4	190	ug/Kg
Q2529-01	TP-91	SOIL	Indeno(1,2,3-cd)pyrene	77.700	JQ	32	190	ug/Kg
Q2529-01	TP-91	SOIL	Benzo(g,h,i)perylene	82.800	J	28.2	190	ug/Kg
Total Svoc :				1,070.50				
Q2529-01	TP-91	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	130.000	AB	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Benzo[e]pyrene *	110.000	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Benzophenone *	120.000	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	Cyclopentadecane *	81.000	J	0	0	ug/Kg
Q2529-01	TP-91	SOIL	n-Hexadecanoic acid *	96.700	J	0	0	ug/Kg
Total Tics :				537.70				
Total Concentration:				1,608.20				
Client ID : TP-80								
Q2529-02	TP-80	SOIL	Acenaphthylene	200.000	Q	31.8	190	ug/Kg
Q2529-02	TP-80	SOIL	Phenanthrene	160.000	J	23	190	ug/Kg
Q2529-02	TP-80	SOIL	Anthracene	87.700	JQ	36.6	190	ug/Kg
Q2529-02	TP-80	SOIL	Fluoranthene	540.000		33	190	ug/Kg
Q2529-02	TP-80	SOIL	Pyrene	510.000		39.6	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(a)anthracene	280.000		25.3	190	ug/Kg
Q2529-02	TP-80	SOIL	Chrysene	340.000		21.9	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(b)fluoranthene	550.000		20.9	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(k)fluoranthene	180.000	J	24.6	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(a)pyrene	350.000	Q	32.5	190	ug/Kg
Q2529-02	TP-80	SOIL	Indeno(1,2,3-cd)pyrene	280.000	Q	32	190	ug/Kg
Q2529-02	TP-80	SOIL	Dibenzo(a,h)anthracene	80.300	J	30.1	190	ug/Kg
Q2529-02	TP-80	SOIL	Benzo(g,h,i)perylene	310.000		28.3	190	ug/Kg
Total Svoc :				3,868.00				
Q2529-02	TP-80	SOIL	11H-Benzo[a]fluoren-11-one *	100.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	1-Heneicosanol *	120.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	140.000	AB	0	0	ug/Kg
Q2529-02	TP-80	SOIL	7H-Benz[de]anthracen-7-one *	82.500	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	Benzo[e]pyrene *	320.000	J	0	0	ug/Kg
Q2529-02	TP-80	SOIL	Benzophenone *	130.000	J	0	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: Q2529
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2529-02	TP-80	SOIL	Cyclopenta(def)phenanthrenone	*	78.500	J 0	0	ug/Kg
Q2529-02	TP-80	SOIL	n-Hexadecanoic acid	*	280.000	J 0	0	ug/Kg
Q2529-02	TP-80	SOIL	Phenanthrene, 1-methyl-	*	120.000	J 0	0	ug/Kg
Q2529-02	TP-80	SOIL	Phenanthrene, 2,5-dimethyl-	*	140.000	J 0	0	ug/Kg
Q2529-02	TP-80	SOIL	Pyrene, 1-methyl-	*	99.400	J 0	0	ug/Kg
Q2529-02	TP-80	SOIL	unknown21.089	*	140.000	J 0	0	ug/Kg
Total Tics :				1,750.40				
Total Concentration:				5,618.40				
Client ID : TP-79								
Q2529-03	TP-79	SOIL	1,2-Dihydro-3-hydroxy-2-oxo-4,6	*	480.000	J 0	0	ug/Kg
Q2529-03	TP-79	SOIL	1-Dodecanethiol	*	89.200	J 0	0	ug/Kg
Q2529-03	TP-79	SOIL	1-Heneicosanol	*	230.000	J 0	0	ug/Kg
Q2529-03	TP-79	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB 0	0	ug/Kg
Q2529-03	TP-79	SOIL	Benzophenone	*	280.000	J 0	0	ug/Kg
Q2529-03	TP-79	SOIL	Butane, 2-methoxy-2-methyl-	*	640.000	J 0	0	ug/Kg
Q2529-03	TP-79	SOIL	n-Hexadecanoic acid	*	1,200.000	J 0	0	ug/Kg
Q2529-03	TP-79	SOIL	Octadecanoic acid	*	6,700.000	J 0	0	ug/Kg
Q2529-03	TP-79	SOIL	Pentadecanoic acid	*	360.000	J 0	0	ug/Kg
Total Tics :				10,249.20				
Total Concentration:				10,249.20				
Client ID : TP-95								
Q2529-04	TP-95	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	160.000	AB 0	0	ug/Kg
Q2529-04	TP-95	SOIL	Benzophenone	*	140.000	J 0	0	ug/Kg
Q2529-04	TP-95	SOIL	n-Hexadecanoic acid	*	130.000	J 0	0	ug/Kg
Total Tics :				430.00				
Total Concentration:				430.00				
Client ID : TP-98								
Q2529-05	TP-98	SOIL	1-Hexacosene	*	81.300	J 0	0	ug/Kg
Q2529-05	TP-98	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	170.000	AB 0	0	ug/Kg
Q2529-05	TP-98	SOIL	Benzophenone	*	120.000	J 0	0	ug/Kg
Q2529-05	TP-98	SOIL	Butane, 2-methoxy-2-methyl-	*	450.000	J 0	0	ug/Kg
Q2529-05	TP-98	SOIL	n-Hexadecanoic acid	*	190.000	J 0	0	ug/Kg
Total Tics :				1,011.30				
Total Concentration:				1,011.30				
Client ID : TP-102								
Q2529-06	TP-102	SOIL	1-Octadecanesulphonyl chloride	*	1,300.000	J 0	0	ug/Kg
Q2529-06	TP-102	SOIL	o-Terphenyl	*	1,700.000	J 0	0	ug/Kg
Total Tics :				3,000.00				

Hit Summary Sheet
SW-846

SDG No.: Q2529
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Concentration:				3,000.00				
Client ID :	TP-101							
Q2529-07	TP-101	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	180.000	AB	0	0	ug/Kg
Q2529-07	TP-101	SOIL	Benzophenone *	200.000	J	0	0	ug/Kg
Total Tics :				380.00				
Total Concentration:				380.00				
Client ID :	TP-89							
Q2529-08	TP-89	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	270.000	AB	0	0	ug/Kg
Q2529-08	TP-89	SOIL	Benzophenone *	260.000	J	0	0	ug/Kg
Q2529-08	TP-89	SOIL	Butane, 2-methoxy-2-methyl- *	560.000	J	0	0	ug/Kg
Q2529-08	TP-89	SOIL	n-Hexadecanoic acid *	160.000	J	0	0	ug/Kg
Q2529-08	TP-89	SOIL	Octacosanol *	85.300	J	0	0	ug/Kg
Total Tics :				1,335.30				
Total Concentration:				1,335.30				
Client ID :	TP-33							
Q2529-09	TP-33	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	180.000	AB	0	0	ug/Kg
Q2529-09	TP-33	SOIL	Benzophenone *	230.000	J	0	0	ug/Kg
Q2529-09	TP-33	SOIL	Butane, 2-methoxy-2-methyl- *	420.000	J	0	0	ug/Kg
Q2529-09	TP-33	SOIL	n-Hexadecanoic acid *	93.000	J	0	0	ug/Kg
Total Tics :				923.00				
Total Concentration:				923.00				
Client ID :	TP-30							
Q2529-10	TP-30	SOIL	1-Heneicosanol *	99.100	J	0	0	ug/Kg
Q2529-10	TP-30	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	170.000	AB	0	0	ug/Kg
Q2529-10	TP-30	SOIL	Benzophenone *	250.000	J	0	0	ug/Kg
Q2529-10	TP-30	SOIL	n-Hexadecanoic acid *	130.000	J	0	0	ug/Kg
Total Tics :				649.10				
Total Concentration:				649.10				



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.9
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
BP025090.D	1	07/09/25 08:55	07/10/25 19:44	PB168767

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	24.3	U	24.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.7	U	26.7	190	ug/Kg
95-57-8	2-Chlorophenol	26.8	U	26.8	190	ug/Kg
95-48-7	2-Methylphenol	32.9	U	32.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.2	U	41.2	190	ug/Kg
98-86-2	Acetophenone	32.4	U	32.4	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.2	U	45.2	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.1	U	52.1	87.9	ug/Kg
67-72-1	Hexachloroethane	19.3	U	19.3	190	ug/Kg
98-95-3	Nitrobenzene	20.1	U	20.1	190	ug/Kg
78-59-1	Isophorone	36.0	UQ	36.0	190	ug/Kg
88-75-5	2-Nitrophenol	64.0	U	64.0	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.2	U	71.2	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.8	U	33.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.1	U	31.1	190	ug/Kg
91-20-3	Naphthalene	24.9	U	24.9	190	ug/Kg
106-47-8	4-Chloroaniline	38.9	U	38.9	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.8	U	27.8	190	ug/Kg
105-60-2	Caprolactam	57.3	U	57.3	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.5	U	31.5	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.1	U	28.1	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.8	UQ	21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.0	UQ	32.0	190	ug/Kg
92-52-4	1,1-Biphenyl	24.0	U	24.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.7	U	24.7	190	ug/Kg
88-74-4	2-Nitroaniline	52.9	U	52.9	190	ug/Kg
131-11-3	Dimethylphthalate	29.8	U	29.8	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.9
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
BP025090.D	1	07/09/25 08:55	07/10/25 19:44	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.8	UQ	31.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.9	UQ	36.9	190	ug/Kg
99-09-2	3-Nitroaniline	50.6	U	50.6	190	ug/Kg
83-32-9	Acenaphthene	23.4	U	23.4	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	55.1	U	55.1	190	ug/Kg
84-66-2	Diethylphthalate	31.1	U	31.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.3	U	29.3	190	ug/Kg
86-73-7	Fluorene	27.8	U	27.8	190	ug/Kg
100-01-6	4-Nitroaniline	70.6	UQ	70.6	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.2	UQ	36.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.6	U	30.6	190	ug/Kg
118-74-1	Hexachlorobenzene	27.8	UQ	27.8	190	ug/Kg
1912-24-9	Atrazine	37.4	U	37.4	190	ug/Kg
87-86-5	Pentachlorophenol	56.4	UQ	56.4	360	ug/Kg
85-01-8	Phenanthrene	23.0	U	23.0	190	ug/Kg
120-12-7	Anthracene	36.6	UQ	36.6	190	ug/Kg
86-74-8	Carbazole	34.3	UQ	34.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.6	UQ	52.6	190	ug/Kg
206-44-0	Fluoranthene	200		33.0	190	ug/Kg
129-00-0	Pyrene	170	J	39.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.5	U	78.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.3	U	40.3	360	ug/Kg
56-55-3	Benzo(a)anthracene	100	J	25.3	190	ug/Kg
218-01-9	Chrysene	130	J	21.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.1	U	65.1	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.4	U	95.4	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	190		20.9	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.9
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
BP025090.D	1	07/09/25 08:55	07/10/25 19:44	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.6	U	24.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	120	JQ	32.4	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	77.7	JQ	32.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.1	U	30.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	82.8	J	28.2	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.1	U	28.1	190	ug/Kg
123-91-1	1,4-Dioxane	49.7	U	49.7	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.1	U	30.1	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	69.7		18 - 112	46%	SPK: 150
13127-88-3	Phenol-d6	70.0		15 - 107	47%	SPK: 150
4165-60-0	Nitrobenzene-d5	49.5		18 - 107	49%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.0		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	78.7		10 - 116	52%	SPK: 150
1718-51-0	Terphenyl-d14	49.6		10 - 105	50%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	533000	7.443	
1146-65-2	Naphthalene-d8	2130000	10.184	
15067-26-2	Acenaphthene-d10	1360000	14.084	
1517-22-2	Phenanthrene-d10	2770000	16.901	
1719-03-5	Chrysene-d12	3120000	21.336	
1520-96-3	Perylene-d12	3250000	24.483	

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	130	AB	4.66	ug/Kg
000119-61-9	Benzophenone	120	J	15.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	96.7	J	17.9	ug/Kg
000295-48-7	Cyclopentadecane	81.0	J	21.1	ug/Kg
000192-97-2	Benzo[e]pyrene	110	J	24.2	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.9
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
BP025090.D	1	07/09/25 08:55	07/10/25 19:44	PB168767

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
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
BP025162.D	1	07/09/25 08:55	07/16/25 17:36	PB168767

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	24.3	U	24.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.7	U	26.7	190	ug/Kg
95-57-8	2-Chlorophenol	26.8	U	26.8	190	ug/Kg
95-48-7	2-Methylphenol	32.9	U	32.9	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	45.2	U	45.2	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.2	U	52.2	88.0	ug/Kg
67-72-1	Hexachloroethane	19.4	U	19.4	190	ug/Kg
98-95-3	Nitrobenzene	20.1	U	20.1	190	ug/Kg
78-59-1	Isophorone	36.1	UQ	36.1	190	ug/Kg
88-75-5	2-Nitrophenol	64.0	U	64.0	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.3	U	71.3	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.9	U	33.9	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.1	U	31.1	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	27.8	U	27.8	190	ug/Kg
105-60-2	Caprolactam	57.3	U	57.3	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	UQ	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.8	UQ	21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.0	UQ	32.0	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	52.9	U	52.9	190	ug/Kg
131-11-3	Dimethylphthalate	29.8	U	29.8	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Final Vol:	1000 uL
		Test:	SVOC-TCL BNA -20
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025162.D	1	07/09/25 08:55	07/16/25 17:36	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	200	Q	31.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.0	UQ	37.0	190	ug/Kg
99-09-2	3-Nitroaniline	50.6	U	50.6	190	ug/Kg
83-32-9	Acenaphthene	23.4	U	23.4	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	55.1	U	55.1	190	ug/Kg
84-66-2	Diethylphthalate	31.1	U	31.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.4	U	29.4	190	ug/Kg
86-73-7	Fluorene	27.8	U	27.8	190	ug/Kg
100-01-6	4-Nitroaniline	70.6	UQ	70.6	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.2	UQ	36.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.6	U	30.6	190	ug/Kg
118-74-1	Hexachlorobenzene	27.8	UQ	27.8	190	ug/Kg
1912-24-9	Atrazine	37.4	U	37.4	190	ug/Kg
87-86-5	Pentachlorophenol	56.4	UQ	56.4	360	ug/Kg
85-01-8	Phenanthrene	160	J	23.0	190	ug/Kg
120-12-7	Anthracene	87.7	JQ	36.6	190	ug/Kg
86-74-8	Carbazole	34.3	UQ	34.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.7	UQ	52.7	190	ug/Kg
206-44-0	Fluoranthene	540		33.0	190	ug/Kg
129-00-0	Pyrene	510		39.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.6	U	78.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.4	U	40.4	360	ug/Kg
56-55-3	Benzo(a)anthracene	280		25.3	190	ug/Kg
218-01-9	Chrysene	340		21.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.1	U	65.1	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.5	U	95.5	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	550		20.9	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BP025162.D	1	07/09/25 08:55	07/16/25 17:36	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	180	J	24.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	350	Q	32.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	280	Q	32.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	80.3	J	30.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	310		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	49.7	U	49.7	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.1	U	30.1	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	67.9		18 - 112	45%	SPK: 150
13127-88-3	Phenol-d6	64.6		15 - 107	43%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.6		18 - 107	49%	SPK: 100
321-60-8	2-Fluorobiphenyl	43.7		20 - 109	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	84.9		10 - 116	57%	SPK: 150
1718-51-0	Terphenyl-d14	51.0		10 - 105	51%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	577000	7.437
1146-65-2	Naphthalene-d8	2200000	10.19
15067-26-2	Acenaphthene-d10	1360000	14.101
1517-22-2	Phenanthrene-d10	2580000	16.925
1719-03-5	Chrysene-d12	2700000	21.354
1520-96-3	Perylene-d12	3270000	24.483

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	140	AB	4.66	ug/Kg
000119-61-9	Benzophenone	130	J	15.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	280	J	17.9	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	120	J	18.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	140	J	18.8	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	78.5	J	18.9	ug/Kg
002381-21-7	Pyrene, 1-methyl-	99.4	J	20.1	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BP025162.D	1	07/09/25 08:55	07/16/25 17:36	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000479-79-8	11H-Benzo[a]fluoren-11-one	100	J		20.8	ug/Kg
000082-05-3	7H-Benz[de]anthracen-7-one	82.5	J		20.9	ug/Kg
	unknown21.089	140	J		21.1	ug/Kg
015594-90-8	1-Heneicosanol	120	J		22.3	ug/Kg
000192-97-2	Benzo[e]pyrene	320	J		24.2	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
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
BM050390.D	1	07/09/25 08:55	07/10/25 15:17	PB168767

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	24.3	U	24.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.7	U	26.7	190	ug/Kg
95-57-8	2-Chlorophenol	26.9	U	26.9	190	ug/Kg
95-48-7	2-Methylphenol	32.9	U	32.9	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	45.2	U	45.2	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.2	U	52.2	88.1	ug/Kg
67-72-1	Hexachloroethane	19.4	U	19.4	190	ug/Kg
98-95-3	Nitrobenzene	20.1	U	20.1	190	ug/Kg
78-59-1	Isophorone	36.1	UQ	36.1	190	ug/Kg
88-75-5	2-Nitrophenol	64.1	U	64.1	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.3	U	71.3	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.9	U	33.9	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	UQ	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.8	UQ	21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.0	UQ	32.0	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	52.9	U	52.9	190	ug/Kg
131-11-3	Dimethylphthalate	29.8	U	29.8	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
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
BM050390.D	1	07/09/25 08:55	07/10/25 15:17	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.8	UQ	31.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.0	UQ	37.0	190	ug/Kg
99-09-2	3-Nitroaniline	50.6	U	50.6	190	ug/Kg
83-32-9	Acenaphthene	23.4	U	23.4	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	70.7	UQ	70.7	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.2	UQ	36.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.6	U	30.6	190	ug/Kg
118-74-1	Hexachlorobenzene	27.9	UQ	27.9	190	ug/Kg
1912-24-9	Atrazine	37.4	U	37.4	190	ug/Kg
87-86-5	Pentachlorophenol	56.5	UQ	56.5	360	ug/Kg
85-01-8	Phenanthrene	23.0	U	23.0	190	ug/Kg
120-12-7	Anthracene	36.7	UQ	36.7	190	ug/Kg
86-74-8	Carbazole	34.3	UQ	34.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.7	UQ	52.7	190	ug/Kg
206-44-0	Fluoranthene	33.0	U	33.0	190	ug/Kg
129-00-0	Pyrene	39.6	U	39.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.6	U	78.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.4	U	40.4	360	ug/Kg
56-55-3	Benzo(a)anthracene	25.3	U	25.3	190	ug/Kg
218-01-9	Chrysene	21.9	U	21.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.2	U	65.2	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.6	U	95.6	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.9	U	20.9	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
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
BM050390.D	1	07/09/25 08:55	07/10/25 15:17	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.7	U	24.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.5	UQ	32.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.0	UQ	32.0	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	28.3	U	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	127		18 - 112	85%	SPK: 150
13127-88-3	Phenol-d6	131		15 - 107	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.3		18 - 107	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.1		20 - 109	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	160		10 - 116	106%	SPK: 150
1718-51-0	Terphenyl-d14	80.4		10 - 105	80%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	494000	7.863			
1146-65-2	Naphthalene-d8	1810000	10.657			
15067-26-2	Acenaphthene-d10	1160000	14.492			
1517-22-2	Phenanthrene-d10	2510000	17.221			
1719-03-5	Chrysene-d12	2690000	21.45			
1520-96-3	Perylene-d12	2770000	24.491			

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	640	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		4.97	ug/Kg
020928-64-7	1,2-Dihydro-3-hydroxy-2-oxo-4,6-bi	480	J		15.7	ug/Kg
000119-61-9	Benzophenone	280	J		15.8	ug/Kg
000057-11-4	Octadecanoic acid	6700	J		16.2	ug/Kg
000057-10-3	n-Hexadecanoic acid	1200	J		18.1	ug/Kg
000112-55-0	1-Dodecanethiol	89.2	J		19.3	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
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
BM050390.D	1	07/09/25 08:55	07/10/25 15:17	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
001002-84-2	Pentadecanoic acid	360	J		19.4	ug/Kg
015594-90-8	1-Heneicosanol	230	J		21.1	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BP025089.D	1	07/09/25 08:55	07/10/25 19:03	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	390	ug/Kg
108-95-2	Phenol	26.4	U	26.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.0	U	29.0	200	ug/Kg
95-57-8	2-Chlorophenol	29.1	U	29.1	200	ug/Kg
95-48-7	2-Methylphenol	35.7	U	35.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.7	U	44.7	200	ug/Kg
98-86-2	Acetophenone	35.2	U	35.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	49.0	U	49.0	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.5	U	56.5	95.4	ug/Kg
67-72-1	Hexachloroethane	21.0	U	21.0	200	ug/Kg
98-95-3	Nitrobenzene	21.8	U	21.8	200	ug/Kg
78-59-1	Isophorone	39.1	UQ	39.1	200	ug/Kg
88-75-5	2-Nitrophenol	69.4	U	69.4	200	ug/Kg
105-67-9	2,4-Dimethylphenol	77.3	U	77.3	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.7	U	36.7	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.8	U	33.8	200	ug/Kg
91-20-3	Naphthalene	27.1	U	27.1	200	ug/Kg
106-47-8	4-Chloroaniline	42.2	U	42.2	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.2	U	30.2	200	ug/Kg
105-60-2	Caprolactam	62.1	U	62.1	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.2	U	34.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.5	U	30.5	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	UQ	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.6	UQ	23.6	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.7	UQ	34.7	200	ug/Kg
92-52-4	1,1-Biphenyl	26.0	U	26.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.8	U	26.8	200	ug/Kg
88-74-4	2-Nitroaniline	57.4	U	57.4	200	ug/Kg
131-11-3	Dimethylphthalate	32.3	U	32.3	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BP025089.D	1	07/09/25 08:55	07/10/25 19:03	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.5	UQ	34.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.1	UQ	40.1	200	ug/Kg
99-09-2	3-Nitroaniline	54.9	U	54.9	200	ug/Kg
83-32-9	Acenaphthene	25.4	U	25.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	27.1	U	27.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.8	U	59.8	200	ug/Kg
84-66-2	Diethylphthalate	33.8	U	33.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.8	U	31.8	200	ug/Kg
86-73-7	Fluorene	30.2	U	30.2	200	ug/Kg
100-01-6	4-Nitroaniline	76.6	UQ	76.6	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.2	UQ	39.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.2	U	33.2	200	ug/Kg
118-74-1	Hexachlorobenzene	30.2	UQ	30.2	200	ug/Kg
1912-24-9	Atrazine	40.6	U	40.6	200	ug/Kg
87-86-5	Pentachlorophenol	61.2	UQ	61.2	390	ug/Kg
85-01-8	Phenanthrene	24.9	U	24.9	200	ug/Kg
120-12-7	Anthracene	39.7	UQ	39.7	200	ug/Kg
86-74-8	Carbazole	37.2	UQ	37.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	57.1	UQ	57.1	200	ug/Kg
206-44-0	Fluoranthene	35.8	U	35.8	200	ug/Kg
129-00-0	Pyrene	42.9	U	42.9	200	ug/Kg
85-68-7	Butylbenzylphthalate	85.2	U	85.2	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.8	U	43.8	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.4	U	27.4	200	ug/Kg
218-01-9	Chrysene	23.7	U	23.7	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.6	U	70.6	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.7	U	22.7	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BP025089.D	1	07/09/25 08:55	07/10/25 19:03	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.7	U	26.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	35.2	UQ	35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.7	UQ	34.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.7	U	32.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.7	U	30.7	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.5	U	30.5	200	ug/Kg
123-91-1	1,4-Dioxane	53.9	U	53.9	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.7	U	32.7	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	77.0		18 - 112	51%	SPK: 150
13127-88-3	Phenol-d6	75.7		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.9		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.7		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	84.6		10 - 116	56%	SPK: 150
1718-51-0	Terphenyl-d14	49.7		10 - 105	50%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	552000	7.443
1146-65-2	Naphthalene-d8	2210000	10.19
15067-26-2	Acenaphthene-d10	1400000	14.095
1517-22-2	Phenanthrene-d10	2850000	16.913
1719-03-5	Chrysene-d12	3150000	21.324
1520-96-3	Perylene-d12	3310000	24.46

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	160	AB	4.66	ug/Kg
000119-61-9	Benzophenone	140	J	15.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J	17.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Final Vol:	1000 uL
		Test:	SVOC-TCL BNA -20
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025089.D	1	07/09/25 08:55	07/10/25 19:03	PB168767

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.9
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
BM050391.D	1	07/09/25 08:55	07/10/25 15:57	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.4	U	25.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.0	U	28.0	200	ug/Kg
95-57-8	2-Chlorophenol	28.1	U	28.1	200	ug/Kg
95-48-7	2-Methylphenol	34.4	U	34.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.1	U	43.1	200	ug/Kg
98-86-2	Acetophenone	33.9	U	33.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.3	U	47.3	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.5	U	54.5	92.0	ug/Kg
67-72-1	Hexachloroethane	20.2	U	20.2	200	ug/Kg
98-95-3	Nitrobenzene	21.1	U	21.1	200	ug/Kg
78-59-1	Isophorone	37.7	UQ	37.7	200	ug/Kg
88-75-5	2-Nitrophenol	67.0	U	67.0	200	ug/Kg
105-67-9	2,4-Dimethylphenol	74.5	U	74.5	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.4	U	35.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.6	U	32.6	200	ug/Kg
91-20-3	Naphthalene	26.1	U	26.1	200	ug/Kg
106-47-8	4-Chloroaniline	40.7	U	40.7	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.1	U	29.1	200	ug/Kg
105-60-2	Caprolactam	59.9	U	59.9	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.0	U	33.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.4	U	29.4	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.8	UQ	22.8	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.5	UQ	33.5	200	ug/Kg
92-52-4	1,1-Biphenyl	25.1	U	25.1	200	ug/Kg
91-58-7	2-Chloronaphthalene	25.9	U	25.9	200	ug/Kg
88-74-4	2-Nitroaniline	55.3	U	55.3	200	ug/Kg
131-11-3	Dimethylphthalate	31.2	U	31.2	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.9
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
BM050391.D	1	07/09/25 08:55	07/10/25 15:57	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.2	UQ	33.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.7	UQ	38.7	200	ug/Kg
99-09-2	3-Nitroaniline	52.9	U	52.9	200	ug/Kg
83-32-9	Acenaphthene	24.5	U	24.5	200	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.1	U	26.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.6	U	57.6	200	ug/Kg
84-66-2	Diethylphthalate	32.6	U	32.6	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.7	U	30.7	200	ug/Kg
86-73-7	Fluorene	29.1	U	29.1	200	ug/Kg
100-01-6	4-Nitroaniline	73.9	UQ	73.9	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.8	UQ	37.8	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.0	U	32.0	200	ug/Kg
118-74-1	Hexachlorobenzene	29.1	UQ	29.1	200	ug/Kg
1912-24-9	Atrazine	39.1	U	39.1	200	ug/Kg
87-86-5	Pentachlorophenol	59.0	UQ	59.0	380	ug/Kg
85-01-8	Phenanthrene	24.0	U	24.0	200	ug/Kg
120-12-7	Anthracene	38.3	UQ	38.3	200	ug/Kg
86-74-8	Carbazole	35.9	UQ	35.9	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.1	UQ	55.1	200	ug/Kg
206-44-0	Fluoranthene	34.5	U	34.5	200	ug/Kg
129-00-0	Pyrene	41.4	U	41.4	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.1	U	82.1	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.2	U	42.2	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.5	U	26.5	200	ug/Kg
218-01-9	Chrysene	22.9	U	22.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.1	U	68.1	200	ug/Kg
117-84-0	Di-n-octyl phthalate	99.9	U	99.9	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.9	U	21.9	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.9
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
BM050391.D	1	07/09/25 08:55	07/10/25 15:57	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.8	U	25.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	33.9	UQ	33.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.5	UQ	33.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.5	U	31.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.6	U	29.6	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.4	U	29.4	200	ug/Kg
123-91-1	1,4-Dioxane	52.0	U	52.0	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.5	U	31.5	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	73.7		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	75.3		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	45.8		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	42.5		20 - 109	43%	SPK: 100
118-79-6	2,4,6-Tribromophenol	82.7		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	48.4		10 - 105	48%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	541000	7.863			
1146-65-2	Naphthalene-d8	1980000	10.657			
15067-26-2	Acenaphthene-d10	1260000	14.492			
1517-22-2	Phenanthrene-d10	2500000	17.227			
1719-03-5	Chrysene-d12	2660000	21.45			
1520-96-3	Perylene-d12	2650000	24.491			

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	450	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	170	AB		4.97	ug/Kg
000119-61-9	Benzophenone	120	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	190	J		18.1	ug/Kg
018835-33-1	1-Hexacosene	81.3	J		21.1	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.9
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
BM050391.D	1	07/09/25 08:55	07/10/25 15:57	PB168767

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95.6
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
BF143065.D	5	07/09/25 08:55	07/09/25 19:33	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	810	U	810	1700	ug/Kg
108-95-2	Phenol	120	U	120	890	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	130	U	130	890	ug/Kg
95-57-8	2-Chlorophenol	130	U	130	890	ug/Kg
95-48-7	2-Methylphenol	160	U	160	890	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	200	U	200	890	ug/Kg
98-86-2	Acetophenone	150	U	150	890	ug/Kg
65794-96-9	3+4-Methylphenols	210	U	210	1700	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	250	U	250	420	ug/Kg
67-72-1	Hexachloroethane	91.9	U	91.9	890	ug/Kg
98-95-3	Nitrobenzene	95.6	U	95.6	890	ug/Kg
78-59-1	Isophorone	170	UQ	170	890	ug/Kg
88-75-5	2-Nitrophenol	300	U	300	890	ug/Kg
105-67-9	2,4-Dimethylphenol	340	U	340	890	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	160	U	160	890	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	150	890	ug/Kg
91-20-3	Naphthalene	120	U	120	890	ug/Kg
106-47-8	4-Chloroaniline	180	U	180	890	ug/Kg
87-68-3	Hexachlorobutadiene	130	U	130	890	ug/Kg
105-60-2	Caprolactam	270	U	270	1700	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	150	890	ug/Kg
91-57-6	2-Methylnaphthalene	130	U	130	890	ug/Kg
77-47-4	Hexachlorocyclopentadiene	610	UQ	610	1700	ug/Kg
88-06-2	2,4,6-Trichlorophenol	100	UQ	100	890	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	UQ	150	890	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	890	ug/Kg
91-58-7	2-Chloronaphthalene	120	U	120	890	ug/Kg
88-74-4	2-Nitroaniline	250	U	250	890	ug/Kg
131-11-3	Dimethylphthalate	140	U	140	890	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95.6
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
BF143065.D	5	07/09/25 08:55	07/09/25 19:33	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	UQ	150	890	ug/Kg
606-20-2	2,6-Dinitrotoluene	180	UQ	180	890	ug/Kg
99-09-2	3-Nitroaniline	240	U	240	890	ug/Kg
83-32-9	Acenaphthene	110	U	110	890	ug/Kg
51-28-5	2,4-Dinitrophenol	1200	U	1200	1700	ug/Kg
100-02-7	4-Nitrophenol	560	U	560	1700	ug/Kg
132-64-9	Dibenzofuran	120	U	120	890	ug/Kg
121-14-2	2,4-Dinitrotoluene	260	U	260	890	ug/Kg
84-66-2	Diethylphthalate	150	U	150	890	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	140	U	140	890	ug/Kg
86-73-7	Fluorene	130	U	130	890	ug/Kg
100-01-6	4-Nitroaniline	340	UQ	340	890	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	540	U	540	1700	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	UQ	170	890	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	150	890	ug/Kg
118-74-1	Hexachlorobenzene	130	UQ	130	890	ug/Kg
1912-24-9	Atrazine	180	U	180	890	ug/Kg
87-86-5	Pentachlorophenol	270	UQ	270	1700	ug/Kg
85-01-8	Phenanthrene	110	U	110	890	ug/Kg
120-12-7	Anthracene	170	UQ	170	890	ug/Kg
86-74-8	Carbazole	160	UQ	160	890	ug/Kg
84-74-2	Di-n-butylphthalate	250	UQ	250	890	ug/Kg
206-44-0	Fluoranthene	160	U	160	890	ug/Kg
129-00-0	Pyrene	190	U	190	890	ug/Kg
85-68-7	Butylbenzylphthalate	370	U	370	890	ug/Kg
91-94-1	3,3-Dichlorobenzidine	190	U	190	1700	ug/Kg
56-55-3	Benzo(a)anthracene	120	U	120	890	ug/Kg
218-01-9	Chrysene	100	U	100	890	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	310	U	310	890	ug/Kg
117-84-0	Di-n-octyl phthalate	450	U	450	1700	ug/Kg
205-99-2	Benzo(b)fluoranthene	99.2	U	99.2	890	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95.6
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
BF143065.D	5	07/09/25 08:55	07/09/25 19:33	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	120	U	120	890	ug/Kg
50-32-8	Benzo(a)pyrene	150	UQ	150	890	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	UQ	150	890	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	140	890	ug/Kg
191-24-2	Benzo(g,h,i)perylene	130	U	130	890	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U	130	890	ug/Kg
123-91-1	1,4-Dioxane	240	U	240	890	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	140	U	140	890	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	60.5		18 - 112	40%	SPK: 150
13127-88-3	Phenol-d6	60.0		15 - 107	40%	SPK: 150
4165-60-0	Nitrobenzene-d5	38.3		18 - 107	38%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.0		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	44.1		10 - 116	29%	SPK: 150
1718-51-0	Terphenyl-d14	30.6		10 - 105	31%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	44600	6.869			
1146-65-2	Naphthalene-d8	163000	8.157			
15067-26-2	Acenaphthene-d10	74800	9.91			
1517-22-2	Phenanthrene-d10	115000	11.404			
1719-03-5	Chrysene-d12	121000	14.051			
1520-96-3	Perylene-d12	80000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000084-15-1	o-Terphenyl	1700	J		11.8	ug/Kg
1000342-70-4	1-Octadecanesulphonyl chloride	1300	J		12.5	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95.6
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
BF143065.D	5	07/09/25 08:55	07/09/25 19:33	PB168767

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	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
BF143062.D	1	07/09/25 08:55	07/09/25 18:01	PB168767

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	UQ	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	UQ	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.1	UQ	22.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.4	UQ	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	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
BF143062.D	1	07/09/25 08:55	07/09/25 18:01	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.2	UQ	32.2	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.4	UQ	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	UQ	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	UQ	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	UQ	28.2	190	ug/Kg
1912-24-9	Atrazine	37.9	U	37.9	190	ug/Kg
87-86-5	Pentachlorophenol	57.2	UQ	57.2	370	ug/Kg
85-01-8	Phenanthrene	23.3	U	23.3	190	ug/Kg
120-12-7	Anthracene	37.1	UQ	37.1	190	ug/Kg
86-74-8	Carbazole	34.8	UQ	34.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.4	UQ	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	U	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	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
BF143062.D	1	07/09/25 08:55	07/09/25 18:01	PB168767

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	UQ	32.9	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.4	UQ	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	75.3		18 - 112	50%	SPK: 150
13127-88-3	Phenol-d6	77.8		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	51.0		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.5		20 - 109	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	53.9		10 - 116	36%	SPK: 150
1718-51-0	Terphenyl-d14	37.8		10 - 105	38%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	47300	6.869			
1146-65-2	Naphthalene-d8	174000	8.157			
15067-26-2	Acenaphthene-d10	90400	9.91			
1517-22-2	Phenanthrene-d10	138000	11.404			
1719-03-5	Chrysene-d12	102000	14.051			
1520-96-3	Perylene-d12	114000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	180	AB		5.08	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	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
BF143062.D	1	07/09/25 08:55	07/09/25 18:01	PB168767

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.1
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
BM050392.D	1	07/09/25 08:55	07/10/25 16:37	PB168767

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	24.5	U	24.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.9	U	26.9	190	ug/Kg
95-57-8	2-Chlorophenol	27.0	U	27.0	190	ug/Kg
95-48-7	2-Methylphenol	33.1	U	33.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.5	U	41.5	190	ug/Kg
98-86-2	Acetophenone	32.7	U	32.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.5	U	45.5	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.5	U	52.5	88.6	ug/Kg
67-72-1	Hexachloroethane	19.5	U	19.5	190	ug/Kg
98-95-3	Nitrobenzene	20.3	U	20.3	190	ug/Kg
78-59-1	Isophorone	36.3	UQ	36.3	190	ug/Kg
88-75-5	2-Nitrophenol	64.5	U	64.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.8	U	71.8	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.1	U	34.1	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.3	U	31.3	190	ug/Kg
91-20-3	Naphthalene	25.1	U	25.1	190	ug/Kg
106-47-8	4-Chloroaniline	39.2	U	39.2	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.0	U	28.0	190	ug/Kg
105-60-2	Caprolactam	57.7	U	57.7	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.8	U	31.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.4	U	28.4	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.9	UQ	21.9	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.2	UQ	32.2	190	ug/Kg
92-52-4	1,1-Biphenyl	24.1	U	24.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.9	U	24.9	190	ug/Kg
88-74-4	2-Nitroaniline	53.3	U	53.3	190	ug/Kg
131-11-3	Dimethylphthalate	30.0	U	30.0	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.1
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BM050392.D	1	07/09/25 08:55	07/10/25 16:37	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.0	UQ	32.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.2	UQ	37.2	190	ug/Kg
99-09-2	3-Nitroaniline	51.0	U	51.0	190	ug/Kg
83-32-9	Acenaphthene	23.6	U	23.6	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.1	U	25.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.5	U	55.5	190	ug/Kg
84-66-2	Diethylphthalate	31.3	U	31.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.6	U	29.6	190	ug/Kg
86-73-7	Fluorene	28.0	U	28.0	190	ug/Kg
100-01-6	4-Nitroaniline	71.1	UQ	71.1	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.4	UQ	36.4	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.8	U	30.8	190	ug/Kg
118-74-1	Hexachlorobenzene	28.0	UQ	28.0	190	ug/Kg
1912-24-9	Atrazine	37.7	U	37.7	190	ug/Kg
87-86-5	Pentachlorophenol	56.8	UQ	56.8	370	ug/Kg
85-01-8	Phenanthrene	23.2	U	23.2	190	ug/Kg
120-12-7	Anthracene	36.9	UQ	36.9	190	ug/Kg
86-74-8	Carbazole	34.6	UQ	34.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.1	UQ	53.1	190	ug/Kg
206-44-0	Fluoranthene	33.2	U	33.2	190	ug/Kg
129-00-0	Pyrene	39.9	U	39.9	190	ug/Kg
85-68-7	Butylbenzylphthalate	79.1	U	79.1	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.7	U	40.7	370	ug/Kg
56-55-3	Benzo(a)anthracene	25.5	U	25.5	190	ug/Kg
218-01-9	Chrysene	22.0	U	22.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.6	U	65.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	96.1	U	96.1	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.0	U	21.0	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.1
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
BM050392.D	1	07/09/25 08:55	07/10/25 16:37	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.8	U	24.8	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.7	UQ	32.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.2	UQ	32.2	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.4	U	30.4	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.5	U	28.5	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.4	U	28.4	190	ug/Kg
123-91-1	1,4-Dioxane	50.1	U	50.1	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.4	U	30.4	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	125		18 - 112	83%	SPK: 150
13127-88-3	Phenol-d6	127		15 - 107	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.3		18 - 107	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.0		20 - 109	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	147		10 - 116	98%	SPK: 150
1718-51-0	Terphenyl-d14	82.8		10 - 105	83%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	535000	7.863
1146-65-2	Naphthalene-d8	1950000	10.657
15067-26-2	Acenaphthene-d10	1230000	14.492
1517-22-2	Phenanthrene-d10	2480000	17.227
1719-03-5	Chrysene-d12	2460000	21.45
1520-96-3	Perylene-d12	2320000	24.491

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	560	J	3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB	4.97	ug/Kg
000119-61-9	Benzophenone	260	J	15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	160	J	18.1	ug/Kg
000557-61-9	Octacosanol	85.3	J	21.1	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.1
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BM050392.D	1	07/09/25 08:55	07/10/25 16:37	PB168767

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.5
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
BM050393.D	1	07/09/25 08:55	07/10/25 17:18	PB168767

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	52.3	U	52.3	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	UQ	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	UQ	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.8	UQ	21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.1	UQ	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.5
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
BM050393.D	1	07/09/25 08:55	07/10/25 17:18	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.9	UQ	31.9	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.0	UQ	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	UQ	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	UQ	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	UQ	27.9	190	ug/Kg
1912-24-9	Atrazine	37.5	U	37.5	190	ug/Kg
87-86-5	Pentachlorophenol	56.6	UQ	56.6	360	ug/Kg
85-01-8	Phenanthrene	23.0	U	23.0	190	ug/Kg
120-12-7	Anthracene	36.7	UQ	36.7	190	ug/Kg
86-74-8	Carbazole	34.4	UQ	34.4	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.8	UQ	52.8	190	ug/Kg
206-44-0	Fluoranthene	33.1	U	33.1	190	ug/Kg
129-00-0	Pyrene	39.7	U	39.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.7	U	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	25.4	U	25.4	190	ug/Kg
218-01-9	Chrysene	21.9	U	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	20.9	U	20.9	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.5
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
BM050393.D	1	07/09/25 08:55	07/10/25 17:18	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.7	U	24.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.5	UQ	32.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.1	UQ	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	28.3	U	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	90.0		18 - 112	60%	SPK: 150
13127-88-3	Phenol-d6	90.7		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.1		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.8		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	97.0		10 - 116	65%	SPK: 150
1718-51-0	Terphenyl-d14	63.0		10 - 105	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	509000	7.863			
1146-65-2	Naphthalene-d8	1850000	10.657			
15067-26-2	Acenaphthene-d10	1190000	14.492			
1517-22-2	Phenanthrene-d10	2410000	17.221			
1719-03-5	Chrysene-d12	2510000	21.45			
1520-96-3	Perylene-d12	2390000	24.491			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	420	J		3.04	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	180	AB		4.97	ug/Kg
000119-61-9	Benzophenone	230	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	93.0	J		18.1	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.5
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BM050393.D	1	07/09/25 08:55	07/10/25 17:18	PB168767

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
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
BP025088.D	1	07/09/25 08:55	07/10/25 18:21	PB168767

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)	41.0	U	41.0	190	ug/Kg
98-86-2	Acetophenone	32.2	U	32.2	190	ug/Kg
65794-96-9	3+4-Methylphenols	44.9	U	44.9	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.8	U	51.8	87.4	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	35.9	UQ	35.9	190	ug/Kg
88-75-5	2-Nitrophenol	63.6	U	63.6	190	ug/Kg
105-67-9	2,4-Dimethylphenol	70.8	U	70.8	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.7	U	33.7	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	38.7	U	38.7	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.7	U	27.7	190	ug/Kg
105-60-2	Caprolactam	56.9	U	56.9	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	UQ	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.6	UQ	21.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.8	UQ	31.8	190	ug/Kg
92-52-4	1,1-Biphenyl	23.8	U	23.8	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.6	U	24.6	190	ug/Kg
88-74-4	2-Nitroaniline	52.6	U	52.6	190	ug/Kg
131-11-3	Dimethylphthalate	29.6	U	29.6	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
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
BP025088.D	1	07/09/25 08:55	07/10/25 18:21	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.6	UQ	31.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.7	UQ	36.7	190	ug/Kg
99-09-2	3-Nitroaniline	50.3	U	50.3	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	24.8	U	24.8	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.8	U	54.8	190	ug/Kg
84-66-2	Diethylphthalate	30.9	U	30.9	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	70.2	UQ	70.2	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.0	UQ	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	UQ	27.7	190	ug/Kg
1912-24-9	Atrazine	37.2	U	37.2	190	ug/Kg
87-86-5	Pentachlorophenol	56.1	UQ	56.1	360	ug/Kg
85-01-8	Phenanthrene	22.8	U	22.8	190	ug/Kg
120-12-7	Anthracene	36.4	UQ	36.4	190	ug/Kg
86-74-8	Carbazole	34.1	UQ	34.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.4	UQ	52.4	190	ug/Kg
206-44-0	Fluoranthene	32.8	U	32.8	190	ug/Kg
129-00-0	Pyrene	39.3	U	39.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.0	U	78.0	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.1	U	40.1	360	ug/Kg
56-55-3	Benzo(a)anthracene	25.1	U	25.1	190	ug/Kg
218-01-9	Chrysene	21.8	U	21.8	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.7	U	64.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	94.9	U	94.9	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.8	U	20.8	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
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
BP025088.D	1	07/09/25 08:55	07/10/25 18:21	PB168767

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	32.2	UQ	32.2	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	31.8	UQ	31.8	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	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	49.4	U	49.4	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	86.8		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	84.3		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.3		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.1		20 - 109	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		10 - 116	69%	SPK: 150
1718-51-0	Terphenyl-d14	60.6		10 - 105	61%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	546000	7.437			
1146-65-2	Naphthalene-d8	2140000	10.178			
15067-26-2	Acenaphthene-d10	1340000	14.084			
1517-22-2	Phenanthrene-d10	2790000	16.895			
1719-03-5	Chrysene-d12	3240000	21.342			
1520-96-3	Perylene-d12	3650000	24.483			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	170	AB		4.66	ug/Kg
000119-61-9	Benzophenone	250	J		15.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J		17.9	ug/Kg
015594-90-8	1-Heneicosanol	99.1	J		21.1	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	91.4
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
BP025088.D	1	07/09/25 08:55	07/10/25 18:21	PB168767

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



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q2529

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168767BL	PB168767BL	2-Fluorophenol	150	146	97		18	112
		Phenol-d6	150	138	92		15	107
		Nitrobenzene-d5	100	99.6	100		18	107
		2-Fluorobiphenyl	100	96.5	96		20	109
		2,4,6-Tribromophenol	150	156	104		10	116
		Terphenyl-d14	100	105	105		10	105
PB168767BS	PB168767BS	2-Fluorophenol	150	155	103		18	112
		Phenol-d6	150	148	98		15	107
		Nitrobenzene-d5	100	103	103		18	107
		2-Fluorobiphenyl	100	98.8	99		20	109
		2,4,6-Tribromophenol	150	161	107		10	116
		Terphenyl-d14	100	105	105		10	105
Q2517-01MS	TP-14MS	2-Fluorophenol	150	80.8	54		18	112
		Phenol-d6	150	82.0	55		15	107
		Nitrobenzene-d5	100	52.1	52		18	107
		2-Fluorobiphenyl	100	50.6	51		20	109
		2,4,6-Tribromophenol	150	77.3	52		10	116
		Terphenyl-d14	100	37.5	38		10	105
Q2517-01MSD	TP-14MSD	2-Fluorophenol	150	73.7	49		18	112
		Phenol-d6	150	74.5	50		15	107
		Nitrobenzene-d5	100	48.0	48		18	107
		2-Fluorobiphenyl	100	46.5	47		20	109
		2,4,6-Tribromophenol	150	67.5	45		10	116
		Terphenyl-d14	100	33.5	33		10	105
Q2529-01	TP-91	2-Fluorophenol	150	69.7	46		18	112
		Phenol-d6	150	70.0	47		15	107
		Nitrobenzene-d5	100	49.5	49		18	107
		2-Fluorobiphenyl	100	49.0	49		20	109
		2,4,6-Tribromophenol	150	78.7	52		10	116
		Terphenyl-d14	100	49.6	50		10	105
Q2529-02	TP-80	2-Fluorophenol	150	67.9	45		18	112
		Phenol-d6	150	64.6	43		15	107
		Nitrobenzene-d5	100	48.6	49		18	107
		2-Fluorobiphenyl	100	43.7	44		20	109
		2,4,6-Tribromophenol	150	84.9	57		10	116
		Terphenyl-d14	100	51.0	51		10	105
Q2529-03	TP-79	2-Fluorophenol	150	127	85		18	112
		Phenol-d6	150	131	87		15	107
		Nitrobenzene-d5	100	79.3	79		18	107
		2-Fluorobiphenyl	100	74.1	74		20	109
		2,4,6-Tribromophenol	150	160	106		10	116
		Terphenyl-d14	100	80.4	80		10	105
Q2529-04	TP-95	2-Fluorophenol	150	77.0	51		18	112
		Phenol-d6	150	75.7	50		15	107
		Nitrobenzene-d5	100	53.9	54		18	107
		2-Fluorobiphenyl	100	47.7	48		20	109
		2,4,6-Tribromophenol	150	84.6	56		10	116
		Terphenyl-d14	100	49.7	50		10	105
Q2529-05	TP-98	2-Fluorophenol	150	73.7	49		18	112
		Phenol-d6	150	75.3	50		15	107
		Nitrobenzene-d5	100	45.8	46		18	107

Surrogate Summary

SW-846

SDG No.: Q2529

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2529-05	TP-98	2-Fluorobiphenyl	100	42.5	43		20	109
		2,4,6-Tribromophenol	150	82.7	55		10	116
		Terphenyl-d14	100	48.4	48		10	105
Q2529-06	TP-102	2-Fluorophenol	150	60.5	40		18	112
		Phenol-d6	150	60.0	40		15	107
		Nitrobenzene-d5	100	38.3	38		18	107
Q2529-07	TP-101	2-Fluorobiphenyl	100	46.0	46		20	109
		2,4,6-Tribromophenol	150	44.1	29		10	116
		Terphenyl-d14	100	30.6	31		10	105
Q2529-08	TP-89	2-Fluorophenol	150	75.3	50		18	112
		Phenol-d6	150	77.8	52		15	107
		Nitrobenzene-d5	100	51.0	51		18	107
Q2529-09	TP-33	2-Fluorobiphenyl	100	52.5	52		20	109
		2,4,6-Tribromophenol	150	53.9	36		10	116
		Terphenyl-d14	100	37.8	38		10	105
Q2529-10	TP-30	2-Fluorophenol	150	125	83		18	112
		Phenol-d6	150	127	84		15	107
		Nitrobenzene-d5	100	76.3	76		18	107
		2-Fluorobiphenyl	100	73.0	73		20	109
		2,4,6-Tribromophenol	150	147	98		10	116
		Terphenyl-d14	100	82.8	83		10	105
		2-Fluorophenol	150	90.0	60		18	112
		Phenol-d6	150	90.7	60		15	107
		Nitrobenzene-d5	100	54.1	54		18	107
		2-Fluorobiphenyl	100	50.8	51		20	109
		2,4,6-Tribromophenol	150	97.0	65		10	116
		Terphenyl-d14	100	63.0	63		10	105
		2-Fluorophenol	150	86.8	58		18	112
		Phenol-d6	150	84.3	56		15	107
		Nitrobenzene-d5	100	60.3	60		18	107
		2-Fluorobiphenyl	100	58.1	58		20	109
		2,4,6-Tribromophenol	150	104	69		10	116
		Terphenyl-d14	100	60.6	61		10	105

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2529

Analytical Method: SW8270E

Client: CDM Smith

DataFile: BF143060.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q2517-01MS		Client Sample ID: TP-14MS									
Benzaldehyde	1100	0	1000	ug/Kg	91				10	171	
Phenol	1100	0	1000	ug/Kg	91				51	122	
bis(2-Chloroethyl)ether	1100	0	1000	ug/Kg	91				54	125	
2-Chlorophenol	1100	0	1000	ug/Kg	91				51	121	
2-Methylphenol	1100	0	1000	ug/Kg	91				47	125	
2,2-oxybis(1-Chloropropane)	1100	0	940	ug/Kg	85				46	119	
Acetophenone	1100	0	1100	ug/Kg	100				55	128	
3+4-Methylphenols	1100	0	1100	ug/Kg	100				49	125	
N-Nitroso-di-n-propylamine	1100	0	1000	ug/Kg	91				59	119	
Hexachloroethane	1100	0	1000	ug/Kg	91				51	116	
Nitrobenzene	1100	0	1000	ug/Kg	91				47	124	
Isophorone	1100	0	1000	ug/Kg	91				49	127	
2-Nitrophenol	1100	0	1100	ug/Kg	100				43	131	
2,4-Dimethylphenol	1100	0	1000	ug/Kg	91				63	151	
bis(2-Chloroethoxy)methane	1100	0	1000	ug/Kg	91				51	119	
2,4-Dichlorophenol	1100	0	1000	ug/Kg	91				50	122	
Naphthalene	1100	0	1100	ug/Kg	100				51	121	
4-Chloroaniline	1100	0	620	ug/Kg	56				10	100	
Hexachlorobutadiene	1100	0	1100	ug/Kg	100				44	126	
Caprolactam	1100	0	990	ug/Kg	90				51	134	
4-Chloro-3-methylphenol	1100	0	1100	ug/Kg	100				57	132	
2-Methylnaphthalene	1100	0	1000	ug/Kg	91				59	123	
Hexachlorocyclopentadiene	2300	0	1600	ug/Kg	70				10	175	
2,4,6-Trichlorophenol	1100	0	980	ug/Kg	89				33	141	
2,4,5-Trichlorophenol	1100	0	1000	ug/Kg	91				38	135	
1,1-Biphenyl	1100	0	1100	ug/Kg	100				55	131	
2-Chloronaphthalene	1100	0	1100	ug/Kg	100				48	124	
2-Nitroaniline	1100	0	1100	ug/Kg	100				47	134	
Dimethylphthalate	1100	0	1100	ug/Kg	100				54	120	
Acenaphthylene	1100	0	1100	ug/Kg	100				57	125	
2,6-Dinitrotoluene	1100	0	1100	ug/Kg	100				48	127	
3-Nitroaniline	1100	0	830	ug/Kg	75				10	112	
Acenaphthene	1100	0	1100	ug/Kg	100				70	121	
2,4-Dinitrophenol	2300	0	570	ug/Kg	25				10	155	
4-Nitrophenol	2300	0	1400	ug/Kg	61				10	175	
Dibenzofuran	1100	0	1100	ug/Kg	100				52	114	
2,4-Dinitrotoluene	1100	0	1100	ug/Kg	100				41	140	
Diethylphthalate	1100	0	1100	ug/Kg	100				51	119	
4-Chlorophenyl-phenylether	1100	0	1100	ug/Kg	100				48	122	
Fluorene	1100	0	1100	ug/Kg	100				53	118	
4-Nitroaniline	1100	0	1100	ug/Kg	100				29	140	
4,6-Dinitro-2-methylphenol	1100	0	620	ug/Kg	56				10	160	
N-Nitrosodiphenylamine	1100	0	1200	ug/Kg	109				73	118	
4-Bromophenyl-phenylether	1100	0	1200	ug/Kg	109				65	121	
Hexachlorobenzene	1100	0	1100	ug/Kg	100				67	118	
Atrazine	1100	0	1200	ug/Kg	109				45	175	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2529

Analytical Method: SW8270E

Client: CDM Smith

DataFile: BF143060.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	2300	0	1100	ug/Kg	48				13	153	
Phenanthrene	1100	0	1100	ug/Kg	100				52	128	
Anthracene	1100	0	1100	ug/Kg	100				62	124	
Carbazole	1100	0	1100	ug/Kg	100				59	119	
Di-n-butylphthalate	1100	0	1200	ug/Kg	109				55	125	
Fluoranthene	1100	0	1000	ug/Kg	91				44	125	
Pyrene	1100	0	790	ug/Kg	72				37	122	
Butylbenzylphthalate	1100	0	1000	ug/Kg	91				44	135	
3,3-Dichlorobenzidine	1100	0	740	ug/Kg	67				15	112	
Benzo(a)anthracene	1100	0	1100	ug/Kg	100				53	119	
Chrysene	1100	0	1100	ug/Kg	100				57	121	
bis(2-Ethylhexyl)phthalate	1100	0	980	ug/Kg	89				42	169	
Di-n-octyl phthalate	1100	0	990	ug/Kg	90				51	156	
Benzo(b)fluoranthene	1100	0	1200	ug/Kg	109				52	117	
Benzo(k)fluoranthene	1100	0	1000	ug/Kg	91				57	134	
Benzo(a)pyrene	1100	0	1100	ug/Kg	100				70	142	
Indeno(1,2,3-cd)pyrene	1100	0	910	ug/Kg	83				40	129	
Dibenz(a,h)anthracene	1100	0	900	ug/Kg	82				43	123	
Benzo(g,h,i)perylene	1100	0	860	ug/Kg	78				24	125	
1,2,4,5-Tetrachlorobenzene	1100	0	1100	ug/Kg	100				52	134	
1,4-Dioxane	1100	0	870	ug/Kg	79				46	112	
2,3,4,6-Tetrachlorophenol	1100	0	890	ug/Kg	81				24	146	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2529

Analytical Method: SW8270E

Client: CDM Smith

DataFile: BF143061.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q2517-01MSD	Client Sample ID:	TP-14MSD								
Benzaldehyde	1100	0	960	ug/Kg	87		4		10	171	20
Phenol	1100	0	920	ug/Kg	84		8		51	122	20
bis(2-Chloroethyl)ether	1100	0	950	ug/Kg	86		6		54	125	20
2-Chlorophenol	1100	0	950	ug/Kg	86		6		51	121	20
2-Methylphenol	1100	0	950	ug/Kg	86		6		47	125	20
2,2-oxybis(1-Chloropropane)	1100	0	850	ug/Kg	77		10		46	119	20
Acetophenone	1100	0	1000	ug/Kg	91		9		55	128	20
3+4-Methylphenols	1100	0	970	ug/Kg	88		13		49	125	20
N-Nitroso-di-n-propylamine	1100	0	950	ug/Kg	86		6		59	119	20
Hexachloroethane	1100	0	930	ug/Kg	85		7		51	116	20
Nitrobenzene	1100	0	970	ug/Kg	88		3		47	124	20
Isophorone	1100	0	950	ug/Kg	86		6		49	127	20
2-Nitrophenol	1100	0	1000	ug/Kg	91		9		43	131	20
2,4-Dimethylphenol	1100	0	950	ug/Kg	86		6		63	151	20
bis(2-Chloroethoxy)methane	1100	0	940	ug/Kg	85		7		51	119	20
2,4-Dichlorophenol	1100	0	970	ug/Kg	88		3		50	122	20
Naphthalene	1100	0	970	ug/Kg	88		13		51	121	20
4-Chloroaniline	1100	0	490	ug/Kg	45		22	*	10	100	20
Hexachlorobutadiene	1100	0	990	ug/Kg	90		11		44	126	20
Caprolactam	1100	0	890	ug/Kg	81		11		51	134	20
4-Chloro-3-methylphenol	1100	0	940	ug/Kg	85		16		57	132	20
2-Methylnaphthalene	1100	0	960	ug/Kg	87		4		59	123	20
Hexachlorocyclopentadiene	2300	0	1300	ug/Kg	57		20		10	175	20
2,4,6-Trichlorophenol	1100	0	890	ug/Kg	81		9		33	141	20
2,4,5-Trichlorophenol	1100	0	890	ug/Kg	81		12		38	135	20
1,1-Biphenyl	1100	0	1000	ug/Kg	91		9		55	131	20
2-Chloronaphthalene	1100	0	1000	ug/Kg	91		9		48	124	20
2-Nitroaniline	1100	0	1000	ug/Kg	91		9		47	134	20
Dimethylphthalate	1100	0	990	ug/Kg	90		11		54	120	20
Acenaphthylene	1100	0	1000	ug/Kg	91		9		57	125	20
2,6-Dinitrotoluene	1100	0	1000	ug/Kg	91		9		48	127	20
3-Nitroaniline	1100	0	670	ug/Kg	61		21	*	10	112	20
Acenaphthene	1100	0	980	ug/Kg	89		12		70	121	20
2,4-Dinitrophenol	2300	0	610	ug/Kg	27		8		10	155	20
4-Nitrophenol	2300	0	1300	ug/Kg	57		7		10	175	20
Dibenzofuran	1100	0	980	ug/Kg	89		12		52	114	20
2,4-Dinitrotoluene	1100	0	970	ug/Kg	88		13		41	140	20
Diethylphthalate	1100	0	980	ug/Kg	89		12		51	119	20
4-Chlorophenyl-phenylether	1100	0	970	ug/Kg	88		13		48	122	20
Fluorene	1100	0	990	ug/Kg	90		11		53	118	20
4-Nitroaniline	1100	0	930	ug/Kg	85		16		29	140	20
4,6-Dinitro-2-methylphenol	1100	0	620	ug/Kg	56		0		10	160	20
N-Nitrosodiphenylamine	1100	0	1100	ug/Kg	100		9		73	118	20
4-Bromophenyl-phenylether	1100	0	1100	ug/Kg	100		9		65	121	20
Hexachlorobenzene	1100	0	1100	ug/Kg	100		0		67	118	20
Atrazine	1100	0	1100	ug/Kg	100		9		45	175	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2529

Analytical Method: SW8270E

Client: CDM Smith

DataFile: BF143061.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	2300	0	1000	ug/Kg	43		11		13	153	20
Phenanthrene	1100	0	1000	ug/Kg	91		9		52	128	20
Anthracene	1100	0	1000	ug/Kg	91		9		62	124	20
Carbazole	1100	0	990	ug/Kg	90		11		59	119	20
Di-n-butylphthalate	1100	0	1100	ug/Kg	100		9		55	125	20
Fluoranthene	1100	0	940	ug/Kg	85		7		44	125	20
Pyrene	1100	0	710	ug/Kg	65		10		37	122	20
Butylbenzylphthalate	1100	0	920	ug/Kg	84		8		44	135	20
3,3-Dichlorobenzidine	1100	0	600	ug/Kg	55		20		15	112	20
Benzo(a)anthracene	1100	0	1000	ug/Kg	91		9		53	119	20
Chrysene	1100	0	990	ug/Kg	90		11		57	121	20
bis(2-Ethylhexyl)phthalate	1100	0	840	ug/Kg	76		16		42	169	20
Di-n-octyl phthalate	1100	0	870	ug/Kg	79		13		51	156	20
Benzo(b)fluoranthene	1100	0	1000	ug/Kg	91		18		52	117	20
Benzo(k)fluoranthene	1100	0	1100	ug/Kg	100		9		57	134	20
Benzo(a)pyrene	1100	0	1000	ug/Kg	91		9		70	142	20
Indeno(1,2,3-cd)pyrene	1100	0	810	ug/Kg	74		11		40	129	20
Dibenz(a,h)anthracene	1100	0	810	ug/Kg	74		10		43	123	20
Benzo(g,h,i)perylene	1100	0	740	ug/Kg	67		15		24	125	20
1,2,4,5-Tetrachlorobenzene	1100	0	1000	ug/Kg	91		9		52	134	20
1,4-Dioxane	1100	0	830	ug/Kg	75		5		46	112	20
2,3,4,6-Tetrachlorophenol	1100	0	780	ug/Kg	71		13		24	146	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>8270E</u>
Client:	<u>CDM Smith</u>	DataFile:	<u>BP025084.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168767BS	Benzaldehyde	1700	1700	ug/Kg	100				10	133	
	Phenol	1700	1700	ug/Kg	100				62	112	
	bis(2-Chloroethyl)ether	1700	1600	ug/Kg	94				60	101	
	2-Chlorophenol	1700	1700	ug/Kg	100				65	112	
	2-Methylphenol	1700	1800	ug/Kg	106				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1600	ug/Kg	94				51	100	
	Acetophenone	1700	1600	ug/Kg	94				66	98	
	3+4-Methylphenols	1700	1700	ug/Kg	100				58	111	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				63	95	
	Hexachloroethane	1700	1700	ug/Kg	100				72	108	
	Nitrobenzene	1700	1700	ug/Kg	100				57	101	
	Isophorone	1700	1700	ug/Kg	100		*		59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	2400	ug/Kg	141				46	141	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				66	97	
	2,4-Dichlorophenol	1700	1800	ug/Kg	106				62	107	
	Naphthalene	1700	1600	ug/Kg	94				62	100	
	4-Chloroaniline	1700	1100	ug/Kg	65				16	100	
	Hexachlorobutadiene	1700	1600	ug/Kg	94				53	98	
	Caprolactam	1700	1600	ug/Kg	94				67	110	
	4-Chloro-3-methylphenol	1700	1700	ug/Kg	100				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	6900	ug/Kg	209		*		45	165	
	2,4,6-Trichlorophenol	1700	1800	ug/Kg	106		*		59	102	
	2,4,5-Trichlorophenol	1700	1800	ug/Kg	106		*		61	98	
	1,1-Biphenyl	1700	1600	ug/Kg	94				57	103	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				58	99	
	2-Nitroaniline	1700	1700	ug/Kg	100				66	101	
	Dimethylphthalate	1700	1600	ug/Kg	94				61	99	
	Acenaphthylene	1700	1800	ug/Kg	106		*		63	101	
	2,6-Dinitrotoluene	1700	1800	ug/Kg	106		*		61	104	
	3-Nitroaniline	1700	1300	ug/Kg	76				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3400	ug/Kg	103				37	128	
	4-Nitrophenol	3300	3700	ug/Kg	112				48	119	
	Dibenzofuran	1700	1600	ug/Kg	94				63	99	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				60	106	
	Diethylphthalate	1700	1600	ug/Kg	94				60	101	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				58	98	
	Fluorene	1700	1600	ug/Kg	94				61	101	
	4-Nitroaniline	1700	1800	ug/Kg	106		*		64	103	
	4,6-Dinitro-2-methylphenol	1700	1600	ug/Kg	94				76	113	
	N-Nitrosodiphenylamine	1700	1700	ug/Kg	100		*		71	99	
	4-Bromophenyl-phenylether	1700	1700	ug/Kg	100				66	102	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: <u>Q2529</u>	Analytical Method: <u>8270E</u>
Client: <u>CDM Smith</u>	DataFile: <u>BP025084.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168767BS	Hexachlorobenzene	1700	1700	ug/Kg	100		*		64	98	
	Atrazine	1700	2100	ug/Kg	124				47	152	
	Pentachlorophenol	3300	3500	ug/Kg	106		*		67	105	
	Phenanthrene	1700	1700	ug/Kg	100				59	103	
	Anthracene	1700	1800	ug/Kg	106		*		61	105	
	Carbazole	1700	1700	ug/Kg	100		*		61	99	
	Di-n-butylphthalate	1700	1800	ug/Kg	106		*		58	104	
	Fluoranthene	1700	1700	ug/Kg	100				57	107	
	Pyrene	1700	1700	ug/Kg	100				59	103	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				55	103	
	3,3-Dichlorobenzidine	1700	1300	ug/Kg	76				42	91	
	Benzo(a)anthracene	1700	1700	ug/Kg	100				60	102	
	Chrysene	1700	1600	ug/Kg	94				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1800	ug/Kg	106				54	135	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				52	137	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				62	109	
	Benzo(k)fluoranthene	1700	1700	ug/Kg	100				62	109	
	Benzo(a)pyrene	1700	1900	ug/Kg	112		*		63	103	
	Indeno(1,2,3-cd)pyrene	1700	1800	ug/Kg	106		*		63	101	
	Dibenz(a,h)anthracene	1700	1800	ug/Kg	106				61	112	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				53	101	
	1,4-Dioxane	1700	1300	ug/Kg	76				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1800	ug/Kg	106				59	108	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB168767BL

Lab Name: Alliance Contract: CAMP02
Lab Code: ACE SDG NO.: Q2529
Lab File ID: BP025083.D Lab Sample ID: PB168767BL
Instrument ID: BNA_P Date Extracted: 07/09/2025
Matrix: (soil/water) SOIL Date Analyzed: 07/10/2025
Level: (low/med) LOW Time Analyzed: 14:48

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168767BS	PB168767BS	BP025084.D	07/10/2025
TP-30	Q2529-10	BP025088.D	07/10/2025
TP-95	Q2529-04	BP025089.D	07/10/2025
TP-91	Q2529-01	BP025090.D	07/10/2025
TP-80	Q2529-02	BP025162.D	07/16/2025
TP-14MS	Q2517-01MS	BF143060.D	07/09/2025
TP-14MSD	Q2517-01MSD	BF143061.D	07/09/2025
TP-101	Q2529-07	BF143062.D	07/09/2025
TP-102	Q2529-06	BF143065.D	07/09/2025
TP-79	Q2529-03	BM050390.D	07/10/2025
TP-98	Q2529-05	BM050391.D	07/10/2025
TP-89	Q2529-08	BM050392.D	07/10/2025
TP-33	Q2529-09	BM050393.D	07/10/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BF142787.D
Instrument ID: BNA_F

Contract: CAMP02
SDG NO.: Q2529
DFTPP Injection Date: 06/19/2025
DFTPP Injection Time: 16:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
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
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
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:

EPA SAMPLE NO.	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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BF143047.D
Instrument ID: BNA_F

Contract: CAMP02
SDG NO.: Q2529
DFTPP Injection Date: 07/09/2025
DFTPP Injection Time: 10:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	30.9
70	Less than 2.0% of mass 69	0.0 (0.0) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.8
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF143048.D	07/09/2025	10:52
TP-14MS	Q2517-01MS	BF143060.D	07/09/2025	17:00
TP-14MSD	Q2517-01MSD	BF143061.D	07/09/2025	17:30
TP-101	Q2529-07	BF143062.D	07/09/2025	18:01
TP-102	Q2529-06	BF143065.D	07/09/2025	19:33

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BM050376.D
Instrument ID: BNA_M

Contract: CAMP02
SDG NO.: Q2529
DFTPP Injection Date: 07/08/2025
DFTPP Injection Time: 11:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	33.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.5
442	Greater than 50% of mass 198	66.5
443	15.0 - 24.0% of mass 442	12.9 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM050377.D	07/08/2025	12:39
SSTDICC005	SSTDICC005	BM050378.D	07/08/2025	13:19
SSTDICC010	SSTDICC010	BM050379.D	07/08/2025	14:00
SSTDICC020	SSTDICC020	BM050380.D	07/08/2025	14:40
SSTDICCC040	SSTDICCC040	BM050381.D	07/08/2025	15:20
SSTDICC050	SSTDICC050	BM050382.D	07/08/2025	16:01
SSTDICC060	SSTDICC060	BM050383.D	07/08/2025	16:41
SSTDICC080	SSTDICC080	BM050384.D	07/08/2025	17:22

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BM050387.D
Instrument ID: BNA_M

Contract: CAMP02
SDG NO.: Q2529
DFTPP Injection Date: 07/10/2025
DFTPP Injection Time: 13:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	33.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.4
442	Greater than 50% of mass 198	68
443	15.0 - 24.0% of mass 442	13.2 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM050388.D	07/10/2025	13:53
TP-79	Q2529-03	BM050390.D	07/10/2025	15:17
TP-98	Q2529-05	BM050391.D	07/10/2025	15:57
TP-89	Q2529-08	BM050392.D	07/10/2025	16:37
TP-33	Q2529-09	BM050393.D	07/10/2025	17:18

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BP025070.D
Instrument ID: BNA_P

Contract: CAMP02
SDG NO.: Q2529
DFTPP Injection Date: 07/03/2025
DFTPP Injection Time: 08:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	31.4
70	Less than 2.0% of mass 69	0.1 (0.4) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.3
442	Greater than 50% of mass 198	92.8
443	15.0 - 24.0% of mass 442	18 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP025071.D	07/03/2025	09:39
SSTDICC005	SSTDICC005	BP025072.D	07/03/2025	10:21
SSTDICC010	SSTDICC010	BP025073.D	07/03/2025	11:02
SSTDICC020	SSTDICC020	BP025074.D	07/03/2025	11:44
SSTDICCC040	SSTDICCC040	BP025075.D	07/03/2025	12:25
SSTDICC050	SSTDICC050	BP025076.D	07/03/2025	13:07
SSTDICC060	SSTDICC060	BP025077.D	07/03/2025	13:49
SSTDICC080	SSTDICC080	BP025078.D	07/03/2025	14:31

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BP025081.D
Instrument ID: BNA_P

Contract: CAMP02
SDG NO.: Q2529
DFTPP Injection Date: 07/10/2025
DFTPP Injection Time: 13:18

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	31.5
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	12.8
442	Greater than 50% of mass 198	82.9
443	15.0 - 24.0% of mass 442	16.3 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP025082.D	07/10/2025	14:04
PB168767BL	PB168767BL	BP025083.D	07/10/2025	14:48
PB168767BS	PB168767BS	BP025084.D	07/10/2025	15:30
TP-30	Q2529-10	BP025088.D	07/10/2025	18:21
TP-95	Q2529-04	BP025089.D	07/10/2025	19:03
TP-91	Q2529-01	BP025090.D	07/10/2025	19:44

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BP025154.D
Instrument ID: BNA_P

Contract: CAMP02
SDG NO.: Q2529
DFTPP Injection Date: 07/16/2025
DFTPP Injection Time: 11:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	28.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	93.6
443	15.0 - 24.0% of mass 442	18.5 (19.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP025155.D	07/16/2025	12:42
TP-80	Q2529-02	BP025162.D	07/16/2025	17:36

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2529

Client ID : SSTDCCC040

Date Analyzed: 07/09/2025

Lab File ID: BF143048.D

Time Analyzed: 10:52

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	66592	6.875	257344	8.16	135062	9.92
UPPER LIMIT	133184	7.375	514688	8.657	270124	10.416
LOWER LIMIT	33296	6.375	128672	7.657	67531	9.416
EPA SAMPLE NO.						
01 TP-14MS	52081	6.87	191892	8.16	94721	9.92
02 TP-14MSD	49173	6.87	178050	8.16	87986	9.92
03 TP-101	47254	6.87	174308	8.16	90374	9.91
04 TP-102	44597	6.87	162685	8.16	74800	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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2529

Client ID: SSTDCCC040

Date Analyzed: 07/09/2025

Lab File ID: BF143048.D

Time Analyzed: 10:52

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	218580	11.41	110392	14.057	146270	15.545
UPPER LIMIT	437160	11.91	220784	14.557	292540	16.045
LOWER LIMIT	109290	10.91	55196	13.557	73135	15.045
EPA SAMPLE NO.						
01 TP-14MS	141827	11.40	102470	14.06	129759	15.55
02 TP-14MSD	128612	11.40	92445	14.05	117034	15.55
03 TP-101	137992	11.40	101609	14.05	114308	15.55
04 TP-102	114652	11.40	120675	14.05	79996	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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: CHEM

SDG NO.: Q2529

Client ID : SSTDICCC040

Date Analyzed: 07/08/2025

Lab File ID: BM050381.D

Time Analyzed: 15:20

Instrument ID: BNA_M

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	390087	7.863	1498320	10.66	967077	14.49
UPPER LIMIT	780174	8.363	2996640	11.163	1934150	14.992
LOWER LIMIT	195044	7.363	749160	10.163	483539	13.992
EPA SAMPLE NO.						
01 TP-79	494196	7.86	1809490	10.66	1160200	14.49
02 TP-98	541235	7.86	1982500	10.66	1258100	14.49
03 TP-89	534860	7.86	1946890	10.66	1231740	14.49
04 TP-33	508555	7.86	1849710	10.66	1187750	14.49

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: CHEM

SDG NO.: Q2529

Client ID: SSTDICCC040

Date Analyzed: 07/08/2025

Lab File ID: BM050381.D

Time Analyzed: 15:20

Instrument ID: BNA_M

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	1834050	17.227	1904000	21.456	1842290	24.497
UPPER LIMIT	3668100	17.727	3808000	21.956	3684580	24.997
LOWER LIMIT	917025	16.727	952000	20.956	921145	23.997
EPA SAMPLE NO.						
01 TP-79	2509640	17.22	2687320	21.45	2766870	24.49
02 TP-98	2502020	17.23	2656850	21.45	2652820	24.49
03 TP-89	2477430	17.23	2462750	21.45	2316010	24.49
04 TP-33	2414090	17.22	2506900	21.45	2387080	24.49

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2529

Client ID : SSTDCCC040

Date Analyzed: 07/10/2025

Lab File ID: BM050388.D

Time Analyzed: 13:53

Instrument ID: BNA_M

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	446689	7.863	1689420	10.66	1077980	14.49
UPPER LIMIT	893378	8.363	3378840	11.157	2155960	14.992
LOWER LIMIT	223345	7.363	844710	10.157	538990	13.992
EPA SAMPLE NO.						
01 TP-33	508555	7.86	1849710	10.66	1187750	14.49
02 TP-79	494196	7.86	1809490	10.66	1160200	14.49
03 TP-98	541235	7.86	1982500	10.66	1258100	14.49
04 TP-89	534860	7.86	1946890	10.66	1231740	14.49

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2529

Client ID: SSTDCCC040

Date Analyzed: 07/10/2025

Lab File ID: BM050388.D

Time Analyzed: 13:53

Instrument ID: BNA_M

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2057470	17.227	2112610	21.45	2045330	24.491
	UPPER LIMIT	4114940	17.727	4225220	21.95	4090660	24.991
	LOWER LIMIT	1028740	16.727	1056310	20.95	1022670	23.991
	EPA SAMPLE NO.						
01	TP-33	2414090	17.22	2506900	21.45	2387080	24.49
02	TP-79	2509640	17.22	2687320	21.45	2766870	24.49
03	TP-98	2502020	17.23	2656850	21.45	2652820	24.49
04	TP-89	2477430	17.23	2462750	21.45	2316010	24.49

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: CHEM

SDG NO.: Q2529

Client ID : SSTDICCC040

Date Analyzed: 07/03/2025

Lab File ID: BP025075.D

Time Analyzed: 12:25

Instrument ID: BNA_P

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	390810	7.443	1560150	10.18	1003100	14.09
UPPER LIMIT	781620	7.943	3120300	10.684	2006200	14.589
LOWER LIMIT	195405	6.943	780075	9.684	501550	13.589
EPA SAMPLE NO.						
01 PB168767BL	405320	7.43	1589650	10.18	1018800	14.09
02 PB168767BS	420219	7.44	1675730	10.18	1078670	14.08
03 TP-91	532751	7.44	2130140	10.18	1357230	14.08
04 TP-95	552278	7.44	2209290	10.19	1404890	14.10
05 TP-30	546199	7.44	2144560	10.18	1342160	14.08
06 TP-80	576516	7.44	2197510	10.19	1357110	14.10

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: CHEM

SDG NO.: Q2529

Client ID: SSTDICCC040

Date Analyzed: 07/03/2025

Lab File ID: BP025075.D

Time Analyzed: 12:25

Instrument ID: BNA_P

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	2062710	16.907	2262590	21.342	2431660	24.495
UPPER LIMIT	4125420	17.407	4525180	21.842	4863320	24.995
LOWER LIMIT	1031360	16.407	1131300	20.842	1215830	23.995
EPA SAMPLE NO.						
01 PB168767BL	2249210	16.91	2364660	21.34	2401940	24.47
02 PB168767BS	2205230	16.91	2320390	21.35	2463990	24.48
03 TP-91	2770430	16.90	3117380	21.34	3248940	24.48
04 TP-95	2847970	16.91	3149270	21.32	3314390	24.46
05 TP-30	2785700	16.90	3238760	21.34	3650800	24.48
06 TP-80	2583320	16.93	2698510	21.35	3269620	24.48

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2529

Client ID : SSTDCCC040

Date Analyzed: 07/10/2025

Lab File ID: BP025082.D

Time Analyzed: 14:04

Instrument ID: BNA_P

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	409438	7.425	1701300	10.18	1080410	14.08
UPPER LIMIT	818876	7.925	3402600	10.678	2160820	14.584
LOWER LIMIT	204719	6.925	850650	9.678	540205	13.584
EPA SAMPLE NO.						
01 PB168767BL	405320	7.43	1589650	10.18	1018800	14.09
02 PB168767BS	420219	7.44	1675730	10.18	1078670	14.08
03 TP-30	546199	7.44	2144560	10.18	1342160	14.08
04 TP-91	532751	7.44	2130140	10.18	1357230	14.08
05 TP-95	552278	7.44	2209290	10.19	1404890	14.10

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2529

Client ID: SSTDCCC040

Date Analyzed: 07/10/2025

Lab File ID: BP025082.D

Time Analyzed: 14:04

Instrument ID: BNA_P

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	2198800	16.901	2306390	21.336	2492510	24.483
UPPER LIMIT	4397600	17.401	4612780	21.836	4985020	24.983
LOWER LIMIT	1099400	16.401	1153200	20.836	1246260	23.983
EPA SAMPLE NO.						
01 PB168767BL	2249210	16.91	2364660	21.34	2401940	24.47
02 PB168767BS	2205230	16.91	2320390	21.35	2463990	24.48
03 TP-30	2785700	16.90	3238760	21.34	3650800	24.48
04 TP-91	2770430	16.90	3117380	21.34	3248940	24.48
05 TP-95	2847970	16.91	3149270	21.32	3314390	24.46

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2529

Client ID : SSTDCCC040

Date Analyzed: 07/16/2025

Lab File ID: BP025155.D

Time Analyzed: 12:42

Instrument ID: BNA_P

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	564997	7.443	2237580	10.20	1465070	14.10
UPPER LIMIT	1129990	7.943	4475160	10.696	2930140	14.595
LOWER LIMIT	282499	6.943	1118790	9.696	732535	13.595
EPA SAMPLE NO.						
01 TP-80	576516	7.44	2197510	10.19	1357110	14.10

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2529

Client ID: SSTDCCC040

Date Analyzed: 07/16/2025

Lab File ID: BP025155.D

Time Analyzed: 12:42

Instrument ID: BNA_P

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	2922940	16.93	2997870	21.36	3472370	24.501
UPPER LIMIT	5845880	17.43	5995740	21.86	6944740	25.001
LOWER LIMIT	1461470	16.43	1498940	20.86	1736190	24.001
EPA SAMPLE NO.						
01 TP-80	2583320	16.93	2698510	21.35	3269620	24.48

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168767BL	SDG No.:	Q2529
Lab Sample ID:	PB168767BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
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
BP025083.D	1	07/09/25 08:55	07/10/25 14:48	PB168767

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	58.2	U	58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.8	U	64.8	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	52.1	U	52.1	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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168767BL	SDG No.:	Q2529
Lab Sample ID:	PB168767BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
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
BP025083.D	1	07/09/25 08:55	07/10/25 14:48	PB168767

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	50.1	U	50.1	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	64.2	U	64.2	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	51.3	U	51.3	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	71.4	U	71.4	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	59.2	U	59.2	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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168767BL	SDG No.:	Q2529
Lab Sample ID:	PB168767BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
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
BP025083.D	1	07/09/25 08:55	07/10/25 14:48	PB168767

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	146		18 - 112	97%	SPK: 150
13127-88-3	Phenol-d6	138		15 - 107	92%	SPK: 150
4165-60-0	Nitrobenzene-d5	99.6		18 - 107	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.5		20 - 109	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	156		10 - 116	104%	SPK: 150
1718-51-0	Terphenyl-d14	105		10 - 105	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	405000	7.431			
1146-65-2	Naphthalene-d8	1590000	10.178			
15067-26-2	Acenaphthene-d10	1020000	14.089			
1517-22-2	Phenanthrene-d10	2250000	16.913			
1719-03-5	Chrysene-d12	2360000	21.336			
1520-96-3	Perylene-d12	2400000	24.471			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	A		4.65	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168767BL	SDG No.:	Q2529
Lab Sample ID:	PB168767BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
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
BP025083.D	1	07/09/25 08:55	07/10/25 14:48	PB168767

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168767BS	SDG No.:	Q2529
Lab Sample ID:	PB168767BS	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
BP025084.D	1	07/09/25 08:55	07/10/25 15:30	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1700		160	330	ug/Kg
108-95-2	Phenol	1700		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1700		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1800		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		37.5	170	ug/Kg
98-86-2	Acetophenone	1600		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1700		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1700		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1700		18.3	170	ug/Kg
78-59-1	Isophorone	1700		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2400		64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		28.3	170	ug/Kg
91-20-3	Naphthalene	1600		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	1100		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1600		25.3	170	ug/Kg
105-60-2	Caprolactam	1600		52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6900	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1600		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1700		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1600		27.1	170	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168767BS	SDG No.:	Q2529
Lab Sample ID:	PB168767BS	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
BP025084.D	1	07/09/25 08:55	07/10/25 15:30	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	1300		46.0	170	ug/Kg
83-32-9	Acenaphthene	1600		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3400	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3700	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1600		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		50.0	170	ug/Kg
84-66-2	Diethylphthalate	1600		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		26.7	170	ug/Kg
86-73-7	Fluorene	1600		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1800		64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1700		25.3	170	ug/Kg
1912-24-9	Atrazine	2100		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3500	E	51.2	330	ug/Kg
85-01-8	Phenanthrene	1700		20.9	170	ug/Kg
120-12-7	Anthracene	1800		33.3	170	ug/Kg
86-74-8	Carbazole	1700		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1800		47.9	170	ug/Kg
206-44-0	Fluoranthene	1700		30.0	170	ug/Kg
129-00-0	Pyrene	1700		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1700		23.0	170	ug/Kg
218-01-9	Chrysene	1600		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		19.0	170	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168767BS	SDG No.:	Q2529
Lab Sample ID:	PB168767BS	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
BP025084.D	1	07/09/25 08:55	07/10/25 15:30	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1900		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1300		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	155		18 - 112	103%	SPK: 150
13127-88-3	Phenol-d6	148		15 - 107	98%	SPK: 150
4165-60-0	Nitrobenzene-d5	103		18 - 107	103%	SPK: 100
321-60-8	2-Fluorobiphenyl	98.8		20 - 109	99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	161		10 - 116	107%	SPK: 150
1718-51-0	Terphenyl-d14	105		10 - 105	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	420000	7.443			
1146-65-2	Naphthalene-d8	1680000	10.184			
15067-26-2	Acenaphthene-d10	1080000	14.084			
1517-22-2	Phenanthrene-d10	2210000	16.913			
1719-03-5	Chrysene-d12	2320000	21.354			
1520-96-3	Perylene-d12	2460000	24.483			

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MS	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	50.04 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
BF143060.D	1	07/09/25 08:55	07/09/25 17:00	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1000		110	230	ug/Kg
108-95-2	Phenol	1000		15.1	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1000		16.6	120	ug/Kg
95-57-8	2-Chlorophenol	1000		16.7	120	ug/Kg
95-48-7	2-Methylphenol	1000		20.4	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	940		25.6	120	ug/Kg
98-86-2	Acetophenone	1100		20.1	120	ug/Kg
65794-96-9	3+4-Methylphenols	1100		28.1	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1000		32.4	54.6	ug/Kg
67-72-1	Hexachloroethane	1000		12.0	120	ug/Kg
98-95-3	Nitrobenzene	1000		12.5	120	ug/Kg
78-59-1	Isophorone	1000		22.4	120	ug/Kg
88-75-5	2-Nitrophenol	1100		39.7	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1000		44.2	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1000		21.0	120	ug/Kg
120-83-2	2,4-Dichlorophenol	1000		19.3	120	ug/Kg
91-20-3	Naphthalene	1100		15.5	120	ug/Kg
106-47-8	4-Chloroaniline	620		24.2	120	ug/Kg
87-68-3	Hexachlorobutadiene	1100		17.3	120	ug/Kg
105-60-2	Caprolactam	990		35.6	230	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		19.6	120	ug/Kg
91-57-6	2-Methylnaphthalene	1000		17.5	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1600		79.2	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	980		13.5	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1000		19.9	120	ug/Kg
92-52-4	1,1-Biphenyl	1100		14.9	120	ug/Kg
91-58-7	2-Chloronaphthalene	1100		15.4	120	ug/Kg
88-74-4	2-Nitroaniline	1100		32.8	120	ug/Kg
131-11-3	Dimethylphthalate	1100		18.5	120	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MS	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	50.04 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
BF143060.D	1	07/09/25 08:55	07/09/25 17:00	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1100		19.7	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		22.9	120	ug/Kg
99-09-2	3-Nitroaniline	830		31.4	120	ug/Kg
83-32-9	Acenaphthene	1100		14.5	120	ug/Kg
51-28-5	2,4-Dinitrophenol	570		160	230	ug/Kg
100-02-7	4-Nitrophenol	1400		73.1	230	ug/Kg
132-64-9	Dibenzofuran	1100		15.5	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		34.2	120	ug/Kg
84-66-2	Diethylphthalate	1100		19.3	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		18.2	120	ug/Kg
86-73-7	Fluorene	1100		17.3	120	ug/Kg
100-01-6	4-Nitroaniline	1100		43.8	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	620		70.3	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1200		22.5	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1200		19.0	120	ug/Kg
118-74-1	Hexachlorobenzene	1100		17.3	120	ug/Kg
1912-24-9	Atrazine	1200		23.2	120	ug/Kg
87-86-5	Pentachlorophenol	1100		35.0	230	ug/Kg
85-01-8	Phenanthrene	1100		14.3	120	ug/Kg
120-12-7	Anthracene	1100		22.7	120	ug/Kg
86-74-8	Carbazole	1100		21.3	120	ug/Kg
84-74-2	Di-n-butylphthalate	1200		32.7	120	ug/Kg
206-44-0	Fluoranthene	1000		20.5	120	ug/Kg
129-00-0	Pyrene	790		24.6	120	ug/Kg
85-68-7	Butylbenzylphthalate	1000		48.8	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	740		25.1	230	ug/Kg
56-55-3	Benzo(a)anthracene	1100		15.7	120	ug/Kg
218-01-9	Chrysene	1100		13.6	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	980		40.4	120	ug/Kg
117-84-0	Di-n-octyl phthalate	990		59.3	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	1200		13.0	120	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MS	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	50.04 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
BF143060.D	1	07/09/25 08:55	07/09/25 17:00	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1000		15.3	120	ug/Kg
50-32-8	Benzo(a)pyrene	1100		20.1	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	910		19.9	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	900		18.7	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	860		17.5	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1100		17.5	120	ug/Kg
123-91-1	1,4-Dioxane	870		30.9	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	890		18.7	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	80.8		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	82.0		15 - 107	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.1		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.6		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	77.3		10 - 116	52%	SPK: 150
1718-51-0	Terphenyl-d14	37.5		10 - 105	38%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	52100	6.869			
1146-65-2	Naphthalene-d8	192000	8.157			
15067-26-2	Acenaphthene-d10	94700	9.916			
1517-22-2	Phenanthrene-d10	142000	11.404			
1719-03-5	Chrysene-d12	102000	14.057			
1520-96-3	Perylene-d12	130000	15.551			

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MSD	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	50.07 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
BF143061.D	1	07/09/25 08:55	07/09/25 17:30	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	960		110	230	ug/Kg
108-95-2	Phenol	920		15.1	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	950		16.6	120	ug/Kg
95-57-8	2-Chlorophenol	950		16.7	120	ug/Kg
95-48-7	2-Methylphenol	950		20.4	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	850		25.6	120	ug/Kg
98-86-2	Acetophenone	1000		20.1	120	ug/Kg
65794-96-9	3+4-Methylphenols	970		28.0	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	950		32.3	54.6	ug/Kg
67-72-1	Hexachloroethane	930		12.0	120	ug/Kg
98-95-3	Nitrobenzene	970		12.5	120	ug/Kg
78-59-1	Isophorone	950		22.4	120	ug/Kg
88-75-5	2-Nitrophenol	1000		39.7	120	ug/Kg
105-67-9	2,4-Dimethylphenol	950		44.2	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	940		21.0	120	ug/Kg
120-83-2	2,4-Dichlorophenol	970		19.3	120	ug/Kg
91-20-3	Naphthalene	970		15.5	120	ug/Kg
106-47-8	4-Chloroaniline	490		24.2	120	ug/Kg
87-68-3	Hexachlorobutadiene	990		17.3	120	ug/Kg
105-60-2	Caprolactam	890		35.6	230	ug/Kg
59-50-7	4-Chloro-3-methylphenol	940		19.6	120	ug/Kg
91-57-6	2-Methylnaphthalene	960		17.5	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1300		79.2	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	890		13.5	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	890		19.9	120	ug/Kg
92-52-4	1,1-Biphenyl	1000		14.9	120	ug/Kg
91-58-7	2-Chloronaphthalene	1000		15.4	120	ug/Kg
88-74-4	2-Nitroaniline	1000		32.8	120	ug/Kg
131-11-3	Dimethylphthalate	990		18.5	120	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MSD	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	50.07 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
BF143061.D	1	07/09/25 08:55	07/09/25 17:30	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1000		19.7	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000		22.9	120	ug/Kg
99-09-2	3-Nitroaniline	670		31.4	120	ug/Kg
83-32-9	Acenaphthene	980		14.5	120	ug/Kg
51-28-5	2,4-Dinitrophenol	610		160	230	ug/Kg
100-02-7	4-Nitrophenol	1300		73.0	230	ug/Kg
132-64-9	Dibenzofuran	980		15.5	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	970		34.2	120	ug/Kg
84-66-2	Diethylphthalate	980		19.3	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	970		18.2	120	ug/Kg
86-73-7	Fluorene	990		17.3	120	ug/Kg
100-01-6	4-Nitroaniline	930		43.8	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	620		70.3	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1100		22.5	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1100		19.0	120	ug/Kg
118-74-1	Hexachlorobenzene	1100		17.3	120	ug/Kg
1912-24-9	Atrazine	1100		23.2	120	ug/Kg
87-86-5	Pentachlorophenol	1000		35.0	230	ug/Kg
85-01-8	Phenanthrene	1000		14.3	120	ug/Kg
120-12-7	Anthracene	1000		22.7	120	ug/Kg
86-74-8	Carbazole	990		21.3	120	ug/Kg
84-74-2	Di-n-butylphthalate	1100		32.7	120	ug/Kg
206-44-0	Fluoranthene	940		20.5	120	ug/Kg
129-00-0	Pyrene	710		24.6	120	ug/Kg
85-68-7	Butylbenzylphthalate	920		48.7	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	600		25.0	230	ug/Kg
56-55-3	Benzo(a)anthracene	1000		15.7	120	ug/Kg
218-01-9	Chrysene	990		13.6	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	840		40.4	120	ug/Kg
117-84-0	Di-n-octyl phthalate	870		59.2	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		13.0	120	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MSD	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.8
Sample Wt/Vol:	50.07 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
BF143061.D	1	07/09/25 08:55	07/09/25 17:30	PB168767

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1100		15.3	120	ug/Kg
50-32-8	Benzo(a)pyrene	1000		20.1	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	810		19.9	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	810		18.7	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	740		17.5	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1000		17.5	120	ug/Kg
123-91-1	1,4-Dioxane	830		30.8	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	780		18.7	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	73.7		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	74.5		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.0		18 - 107	48%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.5		20 - 109	47%	SPK: 100
118-79-6	2,4,6-Tribromophenol	67.5		10 - 116	45%	SPK: 150
1718-51-0	Terphenyl-d14	33.5		10 - 105	33%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	49200	6.869			
1146-65-2	Naphthalene-d8	178000	8.157			
15067-26-2	Acenaphthene-d10	88000	9.916			
1517-22-2	Phenanthrene-d10	129000	11.404			
1719-03-5	Chrysene-d12	92400	14.051			
1520-96-3	Perylene-d12	117000	15.551			

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

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 =BF142795.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

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM070925.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Jul 08 18:32:25 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BM050377.D 5 =BM050378.D 10 =BM050379.D 20 =BM050380.D 40 =BM050381.D 50 =BM050382.D 60 =BM050383.D 80 =BM050384.D

Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD

1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) 1,4-Dioxane	0.504	0.466	0.482	0.460	0.501	0.474	0.457	0.478		3.99
3) Pyridine	1.249	1.197	1.256	1.228	1.336	1.279	1.236	1.254		3.52
4) n-Nitrosodimet...		0.562	0.595	0.572	0.620	0.595	0.565	0.585		3.88
5) S 2-Fluorophenol	1.126	1.079	1.149	1.152	1.258	1.202	1.168	1.162		4.89
6) Aniline	1.784	1.702	1.844	1.878	2.042	1.987	1.921	1.880		6.20
7) S Phenol-d6	1.367	1.327	1.441	1.466	1.607	1.547	1.498	1.465		6.67
8) 2-Chlorophenol	1.135	1.105	1.219	1.217	1.341	1.301	1.258	1.225		6.89
9) Benzaldehyde		0.944	0.985	0.897	0.837	0.694		0.871		13.03
10) C Phenol	1.460	1.412	1.516	1.508	1.666	1.598	1.535	1.528		5.51
11) bis(2-Chloroet...	1.202	1.134	1.223	1.196	1.324	1.268	1.218	1.223		4.88
12) 1,3-Dichlorobe...	1.504	1.425	1.496	1.448	1.580	1.511	1.465	1.490		3.40
13) C 1,4-Dichlorobe...	1.553	1.459	1.536	1.465	1.610	1.538	1.487	1.521		3.57
14) 1,2-Dichlorobe...	1.481	1.395	1.454	1.410	1.541	1.485	1.428	1.456		3.48
15) Benzyl Alcohol		0.907	0.995	1.022	1.125	1.090	1.052	1.032		7.45
16) 2,2'-oxybis(1-...	1.835	1.741	1.818	1.752	1.907	1.821	1.741	1.802		3.41
17) 2-Methylphenol	0.922	0.898	0.980	0.990	1.089	1.048	1.008	0.991		6.71
18) Hexachloroethane	0.518	0.501	0.532	0.520	0.574	0.556	0.543	0.535		4.66
19) P n-Nitroso-di-n...	0.790	0.805	0.808	0.888	0.911	1.005	0.968	0.924	0.887	9.01
20) 3+4-Methylphenols		1.170	1.296	1.325	1.458	1.393	1.338	1.330		7.29
21) I Naphthalene-d8	-----ISTD-----									
22) Acetophenone	0.493	0.479	0.501	0.491	0.534	0.513	0.489	0.500		3.69
23) S Nitrobenzene-d5	0.362	0.355	0.390	0.392	0.429	0.415	0.400	0.392		6.77
24) Nitrobenzene	0.333	0.329	0.353	0.345	0.377	0.362	0.349	0.350		4.73
25) Isophorone	0.571	0.574	0.634	0.640	0.702	0.679	0.652	0.636		7.73
26) C 2-Nitrophenol	0.107	0.112	0.132	0.147	0.167	0.167	0.167	0.143		18.26
27) 2,4-Dimethylph...	0.295	0.275	0.301	0.299	0.329	0.317	0.308	0.303		5.63
28) bis(2-Chloroet...	0.407	0.395	0.422	0.417	0.454	0.436	0.420	0.422		4.61
29) C 2,4-Dichloroph...	0.277	0.279	0.311	0.312	0.344	0.334	0.325	0.312		8.26
30) 1,2,4-Trichlor...	0.370	0.349	0.369	0.362	0.397	0.385	0.378	0.373		4.21
31) Naphthalene	1.033	0.975	1.024	0.988	1.071	1.029	0.992	1.016		3.26
32) Benzoic acid		0.100	0.139	0.164	0.195	0.194	0.199	0.165		23.89
33) 4-Chloroaniline	0.398	0.397	0.427	0.429	0.465	0.453	0.437	0.429		6.00
34) C Hexachlorobuta...	0.222	0.209	0.222	0.221	0.244	0.239	0.235	0.228		5.37
35) Caprolactam		0.064	0.081	0.087	0.096	0.093	0.090	0.085		13.87
36) C 4-Chloro-3-met...	0.258	0.256	0.288	0.295	0.326	0.313	0.302	0.291		9.10
37) 2-Methylnaphth...	0.611	0.595	0.638	0.635	0.693	0.671	0.647	0.641		5.19
38) 1-Methylnaphth...	0.651	0.629	0.674	0.673	0.736	0.707	0.681	0.679		5.17

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM070925.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.590	0.569	0.611	0.622	0.700	0.683	0.677	0.636	7.93	
41) P	Hexachlorocycl...	0.320	0.361	0.396	0.450	0.454	0.459	0.407	14.08		
42) S	2,4,6-Tribromo...	0.182	0.195	0.230	0.248	0.285	0.280	0.280	0.243	17.40	
43) C	2,4,6-Trichlor...	0.330	0.335	0.377	0.394	0.443	0.434	0.427	0.391	11.81	
44)	2,4,5-Trichlor...	0.359	0.376	0.415	0.430	0.484	0.470	0.460	0.428	11.13	
45) S	2-Fluorobiphenyl	1.572	1.538	1.611	1.592	1.753	1.697	1.575	1.620	4.74	
46)	1,1'-Biphenyl	1.464	1.419	1.479	1.441	1.586	1.527	1.471	1.484	3.79	
47)	2-Chloronaphth...	1.164	1.126	1.187	1.150	1.267	1.217	1.171	1.183	3.93	
48)	2-Nitroaniline	0.197	0.211	0.253	0.278	0.312	0.302	0.295	0.264	17.17	
49)	Acenaphthylene	1.645	1.658	1.795	1.775	1.956	1.875	1.811	1.788	6.21	
50)	Dimethylphthalate	1.323	1.285	1.368	1.351	1.506	1.432	1.373	1.377	5.29	
51)	2,6-Dinitrotol...	0.196	0.224	0.263	0.273	0.308	0.297	0.289	0.264	15.41	
52) C	Acenaphthene	1.086	1.050	1.126	1.111	1.231	1.196	1.158	1.137	5.51	
53)	3-Nitroaniline	0.204	0.231	0.278	0.294	0.330	0.319	0.311	0.281	16.81	
54) P	2,4-Dinitrophenol	0.074	0.097	0.117	0.140	0.147	0.150	0.121	25.40		
55)	Dibenzofuran	1.747	1.674	1.756	1.709	1.880	1.784	1.711	1.751	3.84	
56) P	4-Nitrophenol	0.182	0.225	0.245	0.276	0.265	0.258	0.242	14.15		
57)	2,4-Dinitrotol...	0.234	0.277	0.340	0.371	0.422	0.407	0.401	0.350	20.31	
58)	Fluorene	1.348	1.328	1.428	1.419	1.582	1.522	1.470	1.443	6.29	
59)	2,3,4,6-Tetrac...	0.299	0.306	0.355	0.365	0.405	0.397	0.392	0.360	11.92	
60)	Diethylphthalate	1.217	1.210	1.319	1.309	1.454	1.379	1.320	1.315	6.51	
61)	4-Chlorophenyl...	0.687	0.673	0.733	0.747	0.839	0.811	0.790	0.754	8.28	
62)	4-Nitroaniline	0.192	0.228	0.284	0.311	0.350	0.331	0.320	0.288	20.10	
63)	Azobenzene	1.085	1.116	1.234	1.208	1.335	1.272	1.204	1.208	7.15	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.057	0.077	0.094	0.109	0.113	0.117	0.095	24.90		
66) c	n-Nitrosodiphe...	0.572	0.577	0.620	0.623	0.678	0.658	0.654	0.626	6.49	
67)	4-Bromophenyl-...	0.196	0.194	0.211	0.218	0.242	0.240	0.241	0.220	9.61	
68)	Hexachlorobenzene	0.239	0.233	0.253	0.256	0.283	0.279	0.278	0.260	7.78	
69)	Atrazine	0.166	0.175	0.199	0.211	0.232	0.228	0.227	0.206	12.95	
70) C	Pentachlorophenol	0.122	0.145	0.161	0.181	0.180	0.183	0.162	15.23		
71)	Phenanthrene	1.119	1.070	1.119	1.101	1.206	1.163	1.143	1.132	3.91	
72)	Anthracene	1.028	1.017	1.109	1.117	1.233	1.204	1.179	1.127	7.44	
73)	Carbazole	0.939	0.944	1.009	1.010	1.108	1.073	1.052	1.019	6.23	
74)	Di-n-butylphth...	0.954	0.961	1.091	1.140	1.252	1.216	1.196	1.116	10.76	
75) C	Fluoranthene	1.088	1.079	1.182	1.233	1.366	1.339	1.327	1.230	9.67	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.370	0.521	0.553	0.601	0.552	0.464	0.510	16.08		
78)	Pyrene	1.198	1.177	1.260	1.260	1.388	1.366	1.316	1.281	6.26	
79) S	Terphenyl-d14	1.095	1.110	1.225	1.258	1.298	1.094	0.878	1.137	12.43	
80)	Butylbenzylpht...	0.317	0.334	0.401	0.441	0.492	0.491	0.479	0.422	17.39	
81)	Benzo(a)anthra...	1.204	1.202	1.282	1.282	1.428	1.379	1.345	1.303	6.57	
82)	3,3'-Dichlorob...	0.351	0.406	0.429	0.498	0.487	0.465	0.439	12.66		
83)	Chrysene	1.162	1.153	1.200	1.209	1.327	1.303	1.249	1.229	5.45	
84)	Bis(2-ethylhex...	0.499	0.546	0.658	0.705	0.780	0.763	0.742	0.670	16.33	
85) c	Di-n-octyl pht...	0.742	0.931	1.058	1.193	1.194	1.183	1.050	17.44		

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM070925.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.208	1.238	1.374	1.415	1.603	1.564	1.551	1.422	11.17
88)	Benzo(b)fluora...	1.090	1.075	1.177	1.230	1.368	1.344	1.327	1.230	9.83
89)	Benzo(k)fluora...	1.105	1.138	1.247	1.263	1.444	1.387	1.350	1.276	9.86
90) C	Benzo(a)pyrene	0.962	0.985	1.099	1.156	1.314	1.281	1.264	1.152	12.41
91)	Dibenzo(a,h)an...	1.022	1.035	1.159	1.193	1.352	1.320	1.301	1.198	11.23
92)	Benzo(g,h,i)pe...	0.992	1.001	1.097	1.121	1.263	1.232	1.216	1.132	9.73

(#) = Out of Range

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP070325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Jul 03 16:05:44 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BP025071.D 5 =BP025072.D 10 =BP025073.D 20 =BP025074.D 40 =BP025075.D 50 =BP025076.D 60 =BP025077.D 80 =BP025078.D

Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) 1,4-Dioxane	0.470	0.452	0.457	0.435	0.420	0.428	0.409	0.439	4.99	
3) Pyridine	1.176	1.153	1.243	1.228	1.171	1.239	1.203	1.202	3.00	
4) n-Nitrosodimet...	0.500	0.531	0.506	0.493	0.522	0.500	0.509	2.85		
5) S 2-Fluorophenol	1.070	1.098	1.179	1.134	1.127	1.168	1.127	1.129	3.33	
6) Aniline	1.334	1.324	1.430	1.388	1.371	1.428	1.359	1.376	3.05	
7) S Phenol-d6	1.428	1.407	1.520	1.458	1.472	1.543	1.482	1.473	3.26	
8) 2-Chlorophenol	1.254	1.207	1.320	1.256	1.250	1.294	1.259	1.263	2.83	
9) Benzaldehyde	0.903	0.894	0.724	0.684	0.641	0.769	15.84			
10) C Phenol	1.473	1.461	1.551	1.472	1.485	1.540	1.493	1.497	2.36	
11) bis(2-Chloroet...	1.187	1.139	1.200	1.122	1.129	1.172	1.115	1.152	2.95	
12) 1,3-Dichlorobe...	1.461	1.434	1.485	1.379	1.366	1.413	1.356	1.413	3.48	
13) C 1,4-Dichlorobe...	1.500	1.432	1.505	1.399	1.384	1.424	1.374	1.431	3.70	
14) 1,2-Dichlorobe...	1.454	1.388	1.445	1.349	1.329	1.368	1.303	1.377	4.12	
15) Benzyl Alcohol	0.887	0.991	0.957	0.990	1.058	1.015	0.983	5.86		
16) 2,2'-oxybis(1-...	1.587	1.520	1.570	1.433	1.462	1.497	1.415	1.498	4.40	
17) 2-Methylphenol	0.887	0.908	1.007	0.969	0.974	1.021	0.983	0.964	5.11	
18) Hexachloroethane	0.476	0.441	0.480	0.460	0.463	0.481	0.462	0.466	3.04	
19) P n-Nitroso-di-n...	0.815	0.862	0.854	0.938	0.865	0.871	0.912	0.872	0.874	4.26
20) 3+4-Methylphenols	1.246	1.383	1.334	1.341	1.428	1.370	1.350	4.55		
21) I Naphthalene-d8	-----ISTD-----									
22) Acetophenone	0.480	0.481	0.502	0.465	0.456	0.480	0.447	0.473	3.88	
23) S Nitrobenzene-d5	0.267	0.277	0.314	0.307	0.308	0.323	0.308	0.301	6.84	
24) Nitrobenzene	0.280	0.293	0.319	0.310	0.307	0.327	0.308	0.306	5.13	
25) Isophorone	0.525	0.534	0.587	0.558	0.571	0.597	0.561	0.562	4.67	
26) C 2-Nitrophenol	0.086	0.093	0.117	0.133	0.146	0.160	0.159	0.128	23.51	
27) 2,4-Dimethylph...	0.199	0.195	0.218	0.208	0.213	0.224	0.210	0.210	4.79	
28) bis(2-Chloroet...	0.378	0.371	0.401	0.374	0.379	0.397	0.371	0.382	3.25	
29) C 2,4-Dichloroph...	0.242	0.263	0.298	0.299	0.304	0.321	0.306	0.291	9.48	
30) 1,2,4-Trichlor...	0.319	0.319	0.331	0.319	0.316	0.335	0.314	0.322	2.53	
31) Naphthalene	1.057	1.030	1.081	1.011	1.005	1.049	0.975	1.030	3.47	
32) Benzoic acid	0.115	0.152	0.186	0.199	0.225	0.231	0.185	24.07		
33) 4-Chloroaniline	0.358	0.370	0.399	0.390	0.381	0.411	0.381	0.384	4.58	
34) C Hexachlorobuta...	0.187	0.180	0.188	0.182	0.184	0.191	0.180	0.185	2.31	
35) Caprolactam	0.087	0.101	0.101	0.098	0.108	0.102	0.099	7.23		
36) C 4-Chloro-3-met...	0.259	0.279	0.321	0.309	0.309	0.332	0.316	0.304	8.35	
37) 2-Methylnaphth...	0.724	0.711	0.766	0.718	0.715	0.747	0.706	0.727	2.99	
38) 1-Methylnaphth...	0.707	0.704	0.753	0.692	0.691	0.736	0.678	0.709	3.74	

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP070325.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.554	0.549	0.584	0.580	0.578	0.610	0.568	0.575	3.56	
41) P	Hexachlorocycl...	0.120	0.135	0.149	0.162	0.171	0.164	0.150	13.13		
42) S	2,4,6-Tribromo...	0.194	0.214	0.240	0.246	0.244	0.266	0.249	0.236	10.22	
43) C	2,4,6-Trichlor...	0.271	0.295	0.355	0.370	0.368	0.399	0.379	0.348	13.51	
44)	2,4,5-Trichlor...	0.326	0.349	0.406	0.411	0.412	0.441	0.416	0.394	10.41	
45) S	2-Fluorobiphenyl	1.338	1.310	1.361	1.279	1.260	1.311	1.177	1.291	4.70	
46)	1,1'-Biphenyl	1.482	1.436	1.510	1.454	1.435	1.490	1.380	1.455	2.99	
47)	2-Chloronaphth...	1.097	1.089	1.141	1.091	1.069	1.121	1.048	1.094	2.83	
48)	2-Nitroaniline	0.157	0.185	0.235	0.259	0.259	0.289	0.273	0.237	20.49	
49)	Acenaphthylene	1.582	1.622	1.771	1.701	1.660	1.761	1.620	1.674	4.36	
50)	Dimethylphthalate	1.364	1.376	1.469	1.408	1.365	1.482	1.337	1.400	3.99	
51)	2,6-Dinitrotol...	0.199	0.238	0.281	0.295	0.291	0.313	0.294	0.273	14.58	
52) C	Acenaphthene	1.085	1.074	1.142	1.066	1.047	1.111	1.027	1.079	3.59	
53)	3-Nitroaniline	0.204	0.248	0.297	0.321	0.310	0.345	0.323	0.293	16.81	
54) P	2,4-Dinitrophenol	0.077	0.098	0.117	0.120	0.137	0.137	0.114	20.49		
55)	Dibenzofuran	1.829	1.814	1.866	1.768	1.720	1.813	1.655	1.781	4.07	
56) P	4-Nitrophenol	0.212	0.260	0.285	0.274	0.301	0.289	0.270	11.73		
57)	2,4-Dinitrotol...	0.231	0.285	0.364	0.392	0.387	0.430	0.406	0.356	20.13	
58)	Fluorene	1.382	1.384	1.467	1.393	1.335	1.403	1.278	1.377	4.27	
59)	2,3,4,6-Tetrac...	0.305	0.318	0.370	0.370	0.363	0.397	0.377	0.357	9.32	
60)	Diethylphthalate	1.368	1.376	1.468	1.429	1.366	1.477	1.358	1.406	3.64	
61)	4-Chlorophenyl...	0.711	0.687	0.710	0.679	0.659	0.700	0.626	0.682	4.47	
62)	4-Nitroaniline	0.221	0.267	0.321	0.342	0.319	0.354	0.324	0.307	15.26	
63)	Azobenzene	1.251	1.275	1.328	1.265	1.211	1.265	1.171	1.252	3.98	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.054	0.069	0.081	0.089	0.097	0.098	0.082	21.25		
66) c	n-Nitrosodiphe...	0.557	0.548	0.597	0.573	0.574	0.592	0.565	0.572	3.11	
67)	4-Bromophenyl-...	0.191	0.190	0.213	0.205	0.208	0.214	0.213	0.205	5.14	
68)	Hexachlorobenzene	0.255	0.240	0.255	0.247	0.248	0.257	0.249	0.250	2.28	
69)	Atrazine	0.155	0.167	0.183	0.172	0.171	0.172	0.154	0.168	6.10	
70) C	Pentachlorophenol	0.131	0.163	0.172	0.178	0.186	0.184	0.169	12.03		
71)	Phenanthrene	1.102	1.084	1.104	1.068	1.030	1.082	1.011	1.069	3.34	
72)	Anthracene	0.998	0.996	1.092	1.036	1.021	1.062	0.971	1.025	4.10	
73)	Carbazole	0.954	0.994	1.057	1.029	0.990	1.017	0.976	1.002	3.45	
74)	Di-n-butylphth...	0.929	0.994	1.147	1.187	1.177	1.228	1.152	1.116	9.89	
75) C	Fluoranthene	1.170	1.222	1.330	1.290	1.249	1.268	1.215	1.249	4.22	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.177	0.354	0.571	0.420	0.288	0.310	0.353	37.82		
78)	Pyrene	1.177	1.184	1.288	1.231	1.251	1.302	1.238	1.239	3.81	
79) S	Terphenyl-d14	0.943	0.919	0.978	0.914	0.915	0.936	0.764	0.910	7.50	
80)	Butylbenzylpht...	0.228	0.276	0.377	0.440	0.471	0.519	0.499	0.402	28.01	
81)	Benzo(a)anthra...	1.146	1.175	1.293	1.217	1.207	1.258	1.189	1.212	4.11	
82)	3,3'-Dichlorob...	0.249	0.340	0.390	0.399	0.414	0.397	0.365	16.97		
83)	Chrysene	1.169	1.147	1.223	1.159	1.157	1.191	1.118	1.166	2.88	
84)	Bis(2-ethylhex...	0.460	0.520	0.646	0.703	0.737	0.764	0.720	0.650	17.89	
85) c	Di-n-octyl pht...	0.609	0.876	1.094	1.206	1.292	1.248	1.054	25.04		

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP070325.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.003	1.101	1.318	1.331	1.366	1.433	1.366	1.274	12.44
88)	Benzo(b)fluora...	1.029	1.063	1.215	1.201	1.188	1.266	1.187	1.164	7.36
89)	Benzo(k)fluora...	1.070	1.129	1.249	1.153	1.157	1.218	1.133	1.158	5.11
90) C	Benzo(a)pyrene	0.817	0.868	1.035	1.033	1.035	1.108	1.040	0.991	10.70
91)	Dibenzo(a,h)an...	0.840	0.921	1.098	1.097	1.126	1.172	1.118	1.053	11.66
92)	Benzo(g,h,i)pe...	0.915	0.967	1.126	1.127	1.142	1.197	1.142	1.088	9.58

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>BNA_F</u>	Calibration Date/Time:	<u>07/09/2025 10:52</u>
Lab File ID:	<u>BF143048.D</u>	Init. Calib. Date(s):	<u>06/19/2025 06/19/2025</u>
EPA Sample No.:	<u>SSTDCCC040</u>	Init. Calib. Time(s):	<u>17:07 20:40</u>
GC Column:	<u>DB-UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.190		-0.9	
Benzaldehyde	0.841	0.917		9.0	
Phenol-d6	1.417	1.399		-1.3	
Phenol	1.575	1.548		-1.7	20.0
bis(2-Chloroethyl)ether	1.126	1.113		-1.2	
2-Chlorophenol	1.296	1.293		-0.2	
2-Methylphenol	0.982	0.968		-1.4	
2,2-oxybis(1-Chloropropane)	1.809	1.636		-9.6	
Acetophenone	0.441	0.435		-1.4	
3+4-Methylphenols	1.224	1.238		1.1	
n-Nitroso-di-n-propylamine	0.824	0.819	0.050	-0.6	
Nitrobenzene-d5	0.365	0.383		4.9	
Hexachloroethane	0.511	0.503		-1.6	
Nitrobenzene	0.330	0.321		-2.7	
Isophorone	0.585	0.566		-3.2	
2-Nitrophenol	0.180	0.180		0.0	20.0
2,4-Dimethylphenol	0.311	0.298		-4.2	
bis(2-Chloroethoxy)methane	0.372	0.364		-2.2	
2,4-Dichlorophenol	0.282	0.277		-1.8	20.0
Naphthalene	0.979	0.942		-3.8	
4-Chloroaniline	0.398	0.385		-3.3	
Hexachlorobutadiene	0.190	0.187		-1.6	20.0
Caprolactam	0.075	0.073		-2.7	
4-Chloro-3-methylphenol	0.281	0.274		-2.5	20.0
2-Methylnaphthalene	0.607	0.598		-1.5	
Hexachlorocyclopentadiene	0.335	0.341	0.050	1.8	
2,4,6-Trichlorophenol	0.385	0.356		-7.5	20.0
2-Fluorobiphenyl	1.522	1.555		2.2	
2,4,5-Trichlorophenol	0.405	0.379		-6.4	
1,1-Biphenyl	1.580	1.532		-3.0	
2-Chloronaphthalene	1.186	1.134		-4.4	
2-Nitroaniline	0.332	0.317		-4.5	
Dimethylphthalate	1.295	1.268		-2.1	
Acenaphthylene	1.952	1.863		-4.6	
2,6-Dinitrotoluene	0.284	0.281		-1.1	
3-Nitroaniline	0.313	0.292		-6.7	
Acenaphthene	1.191	1.172		-1.6	20.0
2,4-Dinitrophenol	0.142	0.173	0.050	21.8	
4-Nitrophenol	0.214	0.250	0.050	16.8	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>BNA_F</u>	Calibration Date/Time:	<u>07/09/2025 10:52</u>
Lab File ID:	<u>BF143048.D</u>	Init. Calib. Date(s):	<u>06/19/2025 06/19/2025</u>
EPA Sample No.:	<u>SSTDCCC040</u>	Init. Calib. Time(s):	<u>17:07 20:40</u>
GC Column:	<u>DB-UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.630		-4.6	
2,4-Dinitrotoluene	0.378	0.375		-0.8	
Diethylphthalate	1.269	1.231		-3.0	
4-Chlorophenyl-phenylether	0.636	0.620		-2.5	
Fluorene	1.334	1.292		-3.1	
4-Nitroaniline	0.286	0.271		-5.2	
4,6-Dinitro-2-methylphenol	0.121	0.118		-2.5	
n-Nitrosodiphenylamine	0.693	0.678		-2.2	20.0
2,4,6-Tribromophenol	0.206	0.202		-1.9	
4-Bromophenyl-phenylether	0.228	0.229		0.4	
Hexachlorobenzene	0.253	0.249		-1.6	
Atrazine	0.179	0.180		0.6	
Pentachlorophenol	0.126	0.181		43.7	20.0
Phenanthrene	1.083	1.038		-4.2	
Anthracene	1.111	1.064		-4.2	
Carbazole	0.959	0.897		-6.5	
Di-n-butylphthalate	0.999	0.985		-1.4	
Fluoranthene	1.028	0.934		-9.1	20.0
Pyrene	1.875	2.057		9.7	
Terphenyl-d14	1.447	1.481		2.3	
Butylbenzylphthalate	0.544	0.572		5.1	
3,3-Dichlorobenzidine	0.438	0.472		7.8	
Benzo (a) anthracene	1.349	1.327		-1.6	
Chrysene	1.204	1.179		-2.1	
Bis(2-ethylhexyl)phthalate	0.782	0.881		12.7	
Di-n-octyl phthalate	1.475	1.717		16.4	20.0
Benzo (b) fluoranthene	1.157	1.101		-4.8	
Benzo (k) fluoranthene	1.083	1.058		-2.3	
Benzo (a) pyrene	1.118	1.086		-2.9	20.0
Indeno (1,2,3-cd) pyrene	1.523	1.452		-4.7	
Dibenzo (a,h) anthracene	1.238	1.181		-4.6	
Benzo (g,h,i) perylene	1.234	1.161		-5.9	
1,2,4,5-Tetrachlorobenzene	0.590	0.572		-3.1	
1,4-Dioxane	0.480	0.441		-8.1	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.318		-2.5	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>BNA_M</u>	Calibration Date/Time:	<u>07/10/2025 13:53</u>
Lab File ID:	<u>BM050388.D</u>	Init. Calib. Date(s):	<u>07/08/2025 07/08/2025</u>
EPA Sample No.:	<u>SSTDCCC040</u>	Init. Calib. Time(s):	<u>12:39 17:22</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.162	1.137		-2.2	
Benzaldehyde	0.871	0.886		1.7	
Phenol-d6	1.465	1.465		0.0	
Phenol	1.528	1.499		-1.9	20.0
bis(2-Chloroethyl)ether	1.223	1.182		-3.4	
2-Chlorophenol	1.225	1.199		-2.1	
2-Methylphenol	0.991	0.969		-2.2	
2,2-oxybis(1-Chloropropane)	1.802	1.740		-3.4	
Acetophenone	0.500	0.491		-1.8	
3+4-Methylphenols	1.330	1.291		-2.9	
n-Nitroso-di-n-propylamine	0.887	0.900	0.050	1.5	
Nitrobenzene-d5	0.392	0.394		0.5	
Hexachloroethane	0.535	0.517		-3.4	
Nitrobenzene	0.350	0.343		-2.0	
Isophorone	0.636	0.632		-0.6	
2-Nitrophenol	0.143	0.148		3.5	20.0
2,4-Dimethylphenol	0.303	0.297		-2.0	
bis(2-Chloroethoxy)methane	0.422	0.412		-2.4	
2,4-Dichlorophenol	0.312	0.314		0.6	20.0
Naphthalene	1.016	0.983		-3.2	
4-Chloroaniline	0.429	0.429		0.0	
Hexachlorobutadiene	0.228	0.218		-4.4	20.0
Caprolactam	0.085	0.085		0.0	
4-Chloro-3-methylphenol	0.291	0.293		0.7	20.0
2-Methylnaphthalene	0.641	0.636		-0.8	
Hexachlorocyclopentadiene	0.407	0.380	0.050	-6.6	
2,4,6-Trichlorophenol	0.391	0.393		0.5	20.0
2-Fluorobiphenyl	1.620	1.599		-1.3	
2,4,5-Trichlorophenol	0.428	0.426		-0.5	
1,1-Biphenyl	1.484	1.456		-1.9	
2-Chloronaphthalene	1.183	1.166		-1.4	
2-Nitroaniline	0.264	0.275		4.2	
Dimethylphthalate	1.377	1.353		-1.7	
Acenaphthylene	1.788	1.781		-0.4	
2,6-Dinitrotoluene	0.264	0.276		4.5	
3-Nitroaniline	0.281	0.295		5.0	
Acenaphthene	1.137	1.124		-1.1	20.0
2,4-Dinitrophenol	0.121	0.118	0.050	-2.5	
4-Nitrophenol	0.242	0.244	0.050	0.8	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>BNA_M</u>	Calibration Date/Time:	<u>07/10/2025 13:53</u>
Lab File ID:	<u>BM050388.D</u>	Init. Calib. Date(s):	<u>07/08/2025 07/08/2025</u>
EPA Sample No.:	<u>SSTDCCC040</u>	Init. Calib. Time(s):	<u>12:39 17:22</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.751	1.711		-2.3	
2,4-Dinitrotoluene	0.350	0.373		6.6	
Diethylphthalate	1.315	1.303		-0.9	
4-Chlorophenyl-phenylether	0.754	0.742		-1.6	
Fluorene	1.443	1.428		-1.0	
4-Nitroaniline	0.288	0.312		8.3	
4,6-Dinitro-2-methylphenol	0.095	0.094		-1.1	
n-Nitrosodiphenylamine	0.626	0.618		-1.3	20.0
2,4,6-Tribromophenol	0.243	0.249		2.5	
4-Bromophenyl-phenylether	0.220	0.217		-1.4	
Hexachlorobenzene	0.260	0.254		-2.3	
Atrazine	0.206	0.205		-0.5	
Pentachlorophenol	0.162	0.157		-3.1	20.0
Phenanthrene	1.132	1.096		-3.2	
Anthracene	1.127	1.112		-1.3	
Carbazole	1.019	1.003		-1.6	
Di-n-butylphthalate	1.116	1.115		-0.1	
Fluoranthene	1.230	1.217		-1.1	20.0
Pyrene	1.281	1.262		-1.5	
Terphenyl-d14	1.137	1.220		7.3	
Butylbenzylphthalate	0.422	0.437		3.6	
3,3-Dichlorobenzidine	0.439	0.422		-3.9	
Benzo (a) anthracene	1.303	1.292		-0.8	
Chrysene	1.229	1.206		-1.9	
Bis(2-ethylhexyl)phthalate	0.670	0.700		4.5	
Di-n-octyl phthalate	1.050	1.069		1.8	20.0
Benzo (b) fluoranthene	1.230	1.224		-0.5	
Benzo (k) fluoranthene	1.276	1.284		0.6	
Benzo (a) pyrene	1.152	1.165		1.1	20.0
Indeno (1,2,3-cd) pyrene	1.422	1.436		1.0	
Dibenzo (a,h) anthracene	1.198	1.209		0.9	
Benzo (g,h,i) perylene	1.132	1.140		0.7	
1,2,4,5-Tetrachlorobenzene	0.636	0.622		-2.2	
1,4-Dioxane	0.478	0.451		-5.6	20.0
2,3,4,6-Tetrachlorophenol	0.360	0.358		-0.6	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>BNA_P</u>	Calibration Date/Time:	<u>07/10/2025 14:04</u>
Lab File ID:	<u>BP025082.D</u>	Init. Calib. Date(s):	<u>07/03/2025 07/03/2025</u>
EPA Sample No.:	<u>SSTDCCC040</u>	Init. Calib. Time(s):	<u>09:39 14:31</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.129	1.128		-0.1	
Benzaldehyde	0.769	0.676		-12.1	
Phenol-d6	1.473	1.499		1.8	
Phenol	1.497	1.506		0.6	20.0
bis(2-Chloroethyl)ether	1.152	1.158		0.5	
2-Chlorophenol	1.263	1.274		0.9	
2-Methylphenol	0.964	0.990		2.7	
2,2-oxybis(1-Chloropropane)	1.498	1.516		1.2	
Acetophenone	0.473	0.455		-3.8	
3+4-Methylphenols	1.350	1.349		-0.1	
n-Nitroso-di-n-propylamine	0.874	0.899	0.050	2.9	
Nitrobenzene-d5	0.301	0.307		2.0	
Hexachloroethane	0.466	0.475		1.9	
Nitrobenzene	0.306	0.311		1.6	
Isophorone	0.562	0.555		-1.2	
2-Nitrophenol	0.128	0.134		4.7	20.0
2,4-Dimethylphenol	0.210	0.205		-2.4	
bis(2-Chloroethoxy)methane	0.382	0.375		-1.8	
2,4-Dichlorophenol	0.291	0.293		0.7	20.0
Naphthalene	1.030	1.002		-2.7	
4-Chloroaniline	0.384	0.377		-1.8	
Hexachlorobutadiene	0.185	0.180		-2.7	20.0
Caprolactam	0.099	0.095		-4.0	
4-Chloro-3-methylphenol	0.304	0.305		0.3	20.0
2-Methylnaphthalene	0.727	0.709		-2.5	
Hexachlorocyclopentadiene	0.150	0.159	0.050	6.0	
2,4,6-Trichlorophenol	0.348	0.364		4.6	20.0
2-Fluorobiphenyl	1.291	1.301		0.8	
2,4,5-Trichlorophenol	0.394	0.412		4.6	
1,1-Biphenyl	1.455	1.443		-0.8	
2-Chloronaphthalene	1.094	1.099		0.5	
2-Nitroaniline	0.237	0.260		9.7	
Dimethylphthalate	1.400	1.389		-0.8	
Acenaphthylene	1.674	1.683		0.5	
2,6-Dinitrotoluene	0.273	0.287		5.1	
3-Nitroaniline	0.293	0.315		7.5	
Acenaphthene	1.079	1.064		-1.4	20.0
2,4-Dinitrophenol	0.114	0.116	0.050	1.8	
4-Nitrophenol	0.270	0.274	0.050	1.5	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>BNA_P</u>	Calibration Date/Time:	<u>07/10/2025 14:04</u>
Lab File ID:	<u>BP025082.D</u>	Init. Calib. Date(s):	<u>07/03/2025 07/03/2025</u>
EPA Sample No.:	<u>SSTDCCC040</u>	Init. Calib. Time(s):	<u>09:39 14:31</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.781	1.758		-1.3	
2,4-Dinitrotoluene	0.356	0.389		9.3	
Diethylphthalate	1.406	1.421		1.1	
4-Chlorophenyl-phenylether	0.682	0.673		-1.3	
Fluorene	1.377	1.368		-0.7	
4-Nitroaniline	0.307	0.331		7.8	
4,6-Dinitro-2-methylphenol	0.082	0.083		1.2	
n-Nitrosodiphenylamine	0.572	0.563		-1.6	20.0
2,4,6-Tribromophenol	0.236	0.238		0.8	
4-Bromophenyl-phenylether	0.205	0.204		-0.5	
Hexachlorobenzene	0.250	0.246		-1.6	
Atrazine	0.168	0.158		-6.0	
Pentachlorophenol	0.169	0.172		1.8	20.0
Phenanthrene	1.069	1.054		-1.4	
Anthracene	1.025	1.036		1.1	
Carbazole	1.002	1.007		0.5	
Di-n-butylphthalate	1.116	1.178		5.6	
Fluoranthene	1.249	1.257		0.6	20.0
Pyrene	1.239	1.223		-1.3	
Terphenyl-d14	0.910	0.936		2.9	
Butylbenzylphthalate	0.402	0.460		14.4	
3,3-Dichlorobenzidine	0.365	0.399		9.3	
Benzo (a) anthracene	1.212	1.214		0.2	
Chrysene	1.166	1.155		-0.9	
Bis(2-ethylhexyl)phthalate	0.650	0.713		9.7	
Di-n-octyl phthalate	1.054	1.169		10.9	20.0
Benzo (b) fluoranthene	1.164	1.196		2.7	
Benzo (k) fluoranthene	1.158	1.154		-0.3	
Benzo (a) pyrene	0.991	1.037		4.6	20.0
Indeno (1,2,3-cd) pyrene	1.274	1.327		4.2	
Dibenzo (a,h) anthracene	1.053	1.107		5.1	
Benzo (g,h,i) perylene	1.088	1.118		2.8	
1,2,4,5-Tetrachlorobenzene	0.575	0.582		1.2	
1,4-Dioxane	0.439	0.424		-3.4	20.0
2,3,4,6-Tetrachlorophenol	0.357	0.369		3.4	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>BNA_P</u>	Calibration Date/Time:	<u>07/16/2025 12:42</u>
Lab File ID:	<u>BP025155.D</u>	Init. Calib. Date(s):	<u>07/03/2025 07/03/2025</u>
EPA Sample No.:	<u>SSTDCCC040</u>	Init. Calib. Time(s):	<u>09:39 14:31</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.129	1.127		-0.2	
Benzaldehyde	0.769	0.625		-18.7	
Phenol-d6	1.473	1.456		-1.2	
Phenol	1.497	1.451		-3.1	20.0
bis(2-Chloroethyl)ether	1.152	1.106		-4.0	
2-Chlorophenol	1.263	1.281		1.4	
2-Methylphenol	0.964	0.980		1.7	
2,2-oxybis(1-Chloropropane)	1.498	1.353		-9.7	
Acetophenone	0.473	0.462		-2.3	
3+4-Methylphenols	1.350	1.353		0.2	
n-Nitroso-di-n-propylamine	0.874	0.858	0.050	-1.8	
Nitrobenzene-d5	0.301	0.315		4.7	
Hexachloroethane	0.466	0.474		1.7	
Nitrobenzene	0.306	0.312		2.0	
Isophorone	0.562	0.566		0.7	
2-Nitrophenol	0.128	0.181		41.4	20.0
2,4-Dimethylphenol	0.210	0.215		2.4	
bis(2-Chloroethoxy)methane	0.382	0.379		-0.8	
2,4-Dichlorophenol	0.291	0.318		9.3	20.0
Naphthalene	1.030	1.012		-1.7	
4-Chloroaniline	0.384	0.391		1.8	
Hexachlorobutadiene	0.185	0.194		4.9	20.0
Caprolactam	0.099	0.105		6.1	
4-Chloro-3-methylphenol	0.304	0.323		6.3	20.0
2-Methylnaphthalene	0.727	0.726		-0.1	
Hexachlorocyclopentadiene	0.150	0.183	0.050	22.0	
2,4,6-Trichlorophenol	0.348	0.402		15.5	20.0
2-Fluorobiphenyl	1.291	1.243		-3.7	
2,4,5-Trichlorophenol	0.394	0.436		10.7	
1,1-Biphenyl	1.455	1.427		-1.9	
2-Chloronaphthalene	1.094	1.096		0.2	
2-Nitroaniline	0.237	0.281		18.6	
Dimethylphthalate	1.400	1.424		1.7	
Acenaphthylene	1.674	1.681		0.4	
2,6-Dinitrotoluene	0.273	0.307		12.5	
3-Nitroaniline	0.293	0.331		13.0	
Acenaphthene	1.079	1.056		-2.1	20.0
2,4-Dinitrophenol	0.114	0.172	0.050	50.9	
4-Nitrophenol	0.270	0.298	0.050	10.4	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2529</u>
Instrument ID:	<u>BNA_P</u>	Calibration Date/Time:	<u>07/16/2025 12:42</u>
Lab File ID:	<u>BP025155.D</u>	Init. Calib. Date(s):	<u>07/03/2025 07/03/2025</u>
EPA Sample No.:	<u>SSTDCCC040</u>	Init. Calib. Time(s):	<u>09:39 14:31</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.781	1.741		-2.2	
2,4-Dinitrotoluene	0.356	0.420		18.0	
Diethylphthalate	1.406	1.422		1.1	
4-Chlorophenyl-phenylether	0.682	0.683		0.1	
Fluorene	1.377	1.344		-2.4	
4-Nitroaniline	0.307	0.349		13.7	
4,6-Dinitro-2-methylphenol	0.082	0.120		46.3	
n-Nitrosodiphenylamine	0.572	0.589		3.0	20.0
2,4,6-Tribromophenol	0.236	0.289		22.5	
4-Bromophenyl-phenylether	0.205	0.226		10.2	
Hexachlorobenzene	0.250	0.266		6.4	
Atrazine	0.168	0.189		12.5	
Pentachlorophenol	0.169	0.198		17.2	20.0
Phenanthrene	1.069	1.030		-3.6	
Anthracene	1.025	1.026		0.1	
Carbazole	1.002	0.998		-0.4	
Di-n-butylphthalate	1.116	1.239		11.0	
Fluoranthene	1.249	1.254		0.4	20.0
Pyrene	1.239	1.265		2.1	
Terphenyl-d14	0.910	0.912		0.2	
Butylbenzylphthalate	0.402	0.541		34.6	
3,3-Dichlorobenzidine	0.365	0.456		24.9	
Benzo (a) anthracene	1.212	1.209		-0.2	
Chrysene	1.166	1.138		-2.4	
Bis(2-ethylhexyl)phthalate	0.650	0.792		21.8	
Di-n-octyl phthalate	1.054	1.357		28.7	20.0
Benzo (b) fluoranthene	1.164	1.147		-1.5	
Benzo (k) fluoranthene	1.158	1.093		-5.6	
Benzo (a) pyrene	0.991	1.020		2.9	20.0
Indeno (1,2,3-cd) pyrene	1.274	1.358		6.6	
Dibenzo (a,h) anthracene	1.053	1.127		7.0	
Benzo (g,h,i) perylene	1.088	1.140		4.8	
1,2,4,5-Tetrachlorobenzene	0.575	0.598		4.0	
1,4-Dioxane	0.439	0.407		-7.3	20.0
2,3,4,6-Tetrachlorophenol	0.357	0.403		12.9	

All other compounds must meet a minimum RRF of 0.010.

LAB CHRONICLE

OrderID:	Q2529	OrderDate:	7/8/2025 3:36:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	TP-91	SOIL	Pesticide-TCL	8081B	07/03/25	07/09/25	07/09/25	07/08/25
Q2529-02	TP-80	SOIL	Pesticide-TCL	8081B	07/07/25	07/09/25	07/09/25	07/08/25
Q2529-03	TP-79	SOIL	Pesticide-TCL	8081B	07/07/25	07/09/25	07/09/25	07/08/25
Q2529-04	TP-95	SOIL	Pesticide-TCL	8081B	07/07/25	07/09/25	07/09/25	07/08/25
Q2529-05	TP-98	SOIL	Pesticide-TCL	8081B	07/07/25	07/09/25	07/09/25	07/08/25
Q2529-06	TP-102	SOIL	Pesticide-TCL	8081B	07/07/25	07/09/25	07/09/25	07/08/25
Q2529-07	TP-101	SOIL	Pesticide-TCL	8081B	07/07/25	07/09/25	07/09/25	07/08/25
Q2529-08	TP-89	SOIL	Pesticide-TCL	8081B	07/08/25	07/09/25	07/09/25	07/08/25
Q2529-09	TP-33	SOIL	Pesticide-TCL	8081B	07/08/25	07/09/25	07/09/25	07/08/25
Q2529-10	TP-30	SOIL	Pesticide-TCL	8081B	07/08/25	07/09/25	07/09/25	07/08/25

Hit Summary Sheet
SW-846

SDG No.: Q2529

Order ID: Q2529

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-91								
Q2529-01	TP-91	SOIL	4,4-DDE	0.42	JP	0.15	1.90	ug/kg
Q2529-01	TP-91	SOIL	4,4-DDT	0.53	JP	0.15	1.90	ug/kg
Total Concentration:				0.950				
Client ID : TP-80								
Q2529-02	TP-80	SOIL	Dieldrin	1.30	JP	0.15	1.90	ug/kg
Q2529-02	TP-80	SOIL	Endrin	0.70	J	0.15	1.90	ug/kg
Q2529-02	TP-80	SOIL	4,4-DDT	0.56	JP	0.15	1.90	ug/kg
Total Concentration:				2.560				



SAMPLE DATA

A

B

C

D

E

F

G

H

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.9
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089414.D	1	07/09/25 08:20	07/09/25 17:39	PB168765

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	0.42	JP	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	0.53	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	0.16	U	0.16	1.90	ug/kg
8001-35-2	Toxaphene	5.90	U	5.90	36.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.1		20 - 144	66%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.9		19 - 148	85%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.9
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089414.D	1	07/09/25 08:20	07/09/25 17:39	PB168765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	CDM Smith			Date Collected:	07/07/25	
Project:	South River WM Replacement			Date Received:	07/08/25	
Client Sample ID:	TP-80			SDG No.:	Q2529	
Lab Sample ID:	Q2529-02			Matrix:	SOIL	
Analytical Method:	8081B			% Solid:	90.7	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
PD089415.D	1	07/09/25 08:20	07/09/25 17:52	PB168765

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	1.30	JP	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	0.70	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	0.56	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	36.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.0		20 - 144	90%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.7		19 - 148	89%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.7
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089415.D	1	07/09/25 08:20	07/09/25 17:52	PB168765

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.6
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089416.D	1	07/09/25 08:20	07/09/25 18:06	PB168765

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	0.17	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	0.15	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	0.17	U	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.00	U	6.00	36.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.9		20 - 144	70%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.6		19 - 148	88%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.6
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089416.D	1	07/09/25 08:20	07/09/25 18:06	PB168765

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.7
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089417.D	1	07/09/25 08:20	07/09/25 18:20	PB168765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.47	U	0.47	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	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	0.23	U	0.23	2.00	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.00	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.00	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.00	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.00	ug/kg
33213-65-9	Endosulfan II	0.35	U	0.35	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.00	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.00	ug/kg
72-43-5	Methoxychlor	0.44	U	0.44	2.00	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.44	U	0.44	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.50	U	6.50	39.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	11.8		20 - 144	59%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.4		19 - 148	82%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.7
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089417.D	1	07/09/25 08:20	07/09/25 18:20	PB168765

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.9
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089418.D	1	07/09/25 08:20	07/09/25 18:33	PB168765

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	0.17	U	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	0.16	U	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	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.20	U	6.20	38.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.4		20 - 144	77%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.7		19 - 148	99%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.9
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089418.D	1	07/09/25 08:20	07/09/25 18:33	PB168765

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	95.6
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089419.D	1	07/09/25 08:20	07/09/25 18:47	PB168765

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	0.41	U	0.41	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	0.20	U	0.20	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	0.30	U	0.30	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	0.39	U	0.39	1.80	ug/kg
53494-70-5	Endrin ketone	0.20	U	0.20	1.80	ug/kg
7421-93-4	Endrin aldehyde	0.39	U	0.39	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	5.60	U	5.60	34.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	11.8		20 - 144	59%	SPK: 20
877-09-8	Tetrachloro-m-xylene	13.8		19 - 148	69%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	07/07/25	
Project:	South River WM Replacement		Date Received:	07/08/25	
Client Sample ID:	TP-102		SDG No.:	Q2529	
Lab Sample ID:	Q2529-06		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	95.6	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
PD089419.D	1	07/09/25 08:20	07/09/25 18:47	PB168765

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	89.7
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089420.D	1	07/09/25 08:20	07/09/25 19:01	PB168765

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	0.16	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	0.32	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	0.13	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	36.8	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	12.8		20 - 144	64%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.2		19 - 148	91%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	89.7
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089420.D	1	07/09/25 08:20	07/09/25 19:01	PB168765

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.1
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089421.D	1	07/09/25 08:20	07/09/25 19:14	PB168765

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	0.16	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	0.32	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	0.13	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	36.6	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.3		20 - 144	67%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.9		19 - 148	89%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.1
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089421.D	1	07/09/25 08:20	07/09/25 19:14	PB168765

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.5
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089422.D	1	07/09/25 08:20	07/09/25 19:28	PB168765

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	0.17	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	0.15	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	0.17	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	16.3		20 - 144	81%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.1		19 - 148	96%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.5
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089422.D	1	07/09/25 08:20	07/09/25 19:28	PB168765

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

Report of Analysis

Client:	CDM Smith			Date Collected:	07/08/25	
Project:	South River WM Replacement			Date Received:	07/08/25	
Client Sample ID:	TP-30			SDG No.:	Q2529	
Lab Sample ID:	Q2529-10			Matrix:	SOIL	
Analytical Method:	8081B			% Solid:	91.4	Decanted:
Sample Wt/Vol:	30.02	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
PD089423.D	1	07/09/25 08:20	07/09/25 19:42	PB168765

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	16.3		20 - 144	81%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.9		19 - 148	94%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	91.4
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089423.D	1	07/09/25 08:20	07/09/25 19:42	PB168765

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

Surrogate Summary

SDG No.: Q2529

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%)	
								Low	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-PD089399.D	PIBLK-PD089399.D	Decachlorobiphen	1	20	21.9	110		57	171
		Tetrachloro-m-xyl	1	20	20.3	102		61	148
		Decachlorobiphen	2	20	23.9	120		57	171
		Tetrachloro-m-xyl	2	20	23.1	115		61	148
PB168765BL	PB168765BL	Decachlorobiphen	1	20	17.7	88		20	144
		Tetrachloro-m-xyl	1	20	15.8	79		19	148
		Decachlorobiphen	2	20	19.1	96		20	144
		Tetrachloro-m-xyl	2	20	18.4	92		19	148
PB168765BS	PB168765BS	Decachlorobiphen	1	20	18.5	93		20	144
		Tetrachloro-m-xyl	1	20	16.2	81		19	148
		Decachlorobiphen	2	20	20.2	101		20	144
		Tetrachloro-m-xyl	2	20	18.9	95		19	148
Q2517-01MS	TP-14MS	Decachlorobiphen	1	20	20.7	104		20	144
		Tetrachloro-m-xyl	1	20	18.3	91		19	148
		Decachlorobiphen	2	20	22.0	110		20	144
		Tetrachloro-m-xyl	2	20	20.9	104		19	148
Q2517-01MSD	TP-14MSD	Decachlorobiphen	1	20	20.8	104		20	144
		Tetrachloro-m-xyl	1	20	18.6	93		19	148
		Decachlorobiphen	2	20	22.0	110		20	144
		Tetrachloro-m-xyl	2	20	21.1	105		19	148
I.BLK-PD089412.D	PIBLK-PD089412.D	Decachlorobiphen	1	20	19.8	99		57	171
		Tetrachloro-m-xyl	1	20	20.5	103		61	148
		Decachlorobiphen	2	20	21.5	107		57	171
		Tetrachloro-m-xyl	2	20	23.1	115		61	148
Q2529-01	TP-91	Decachlorobiphen	1	20	13.1	66		20	144
		Tetrachloro-m-xyl	1	20	15.4	77		19	148
		Decachlorobiphen	2	20	13.1	66		20	144
		Tetrachloro-m-xyl	2	20	16.9	85		19	148
Q2529-02	TP-80	Decachlorobiphen	1	20	18.0	90		20	144
		Tetrachloro-m-xyl	1	20	15.9	79		19	148
		Decachlorobiphen	2	20	16.1	80		20	144
		Tetrachloro-m-xyl	2	20	17.7	89		19	148
Q2529-03	TP-79	Decachlorobiphen	1	20	13.7	69		20	144
		Tetrachloro-m-xyl	1	20	16.1	80		19	148
		Decachlorobiphen	2	20	13.9	70		20	144
		Tetrachloro-m-xyl	2	20	17.6	88		19	148
Q2529-04	TP-95	Decachlorobiphen	1	20	11.8	59		20	144

Surrogate Summary

SDG No.: **Q2529**

Client: **CDM Smith**

Analytical Method: **8081B**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%)	
								Low	High
Q2529-04	TP-95	Tetrachloro-m-xyl	1	20	14.9	75		19	148
		Decachlorobiphen	2	20	11.8	59		20	144
Q2529-05	TP-98	Tetrachloro-m-xyl	2	20	16.4	82		19	148
		Decachlorobiphen	1	20	14.3	72		20	144
		Tetrachloro-m-xyl	1	20	17.9	90		19	148
		Decachlorobiphen	2	20	15.4	77		20	144
		Tetrachloro-m-xyl	2	20	19.7	99		19	148
Q2529-06	TP-102	Decachlorobiphen	1	20	11.8	59		20	144
		Tetrachloro-m-xyl	1	20	12.6	63		19	148
		Decachlorobiphen	2	20	10.1	51		20	144
		Tetrachloro-m-xyl	2	20	13.8	69		19	148
Q2529-07	TP-101	Decachlorobiphen	1	20	12.8	64		20	144
		Tetrachloro-m-xyl	1	20	16.3	81		19	148
		Decachlorobiphen	2	20	12.3	61		20	144
		Tetrachloro-m-xyl	2	20	18.2	91		19	148
Q2529-08	TP-89	Decachlorobiphen	1	20	13.0	65		20	144
		Tetrachloro-m-xyl	1	20	15.7	78		19	148
		Decachlorobiphen	2	20	13.3	67		20	144
		Tetrachloro-m-xyl	2	20	17.9	89		19	148
Q2529-09	TP-33	Decachlorobiphen	1	20	15.6	78		20	144
		Tetrachloro-m-xyl	1	20	17.1	86		19	148
		Decachlorobiphen	2	20	16.3	81		20	144
		Tetrachloro-m-xyl	2	20	19.1	96		19	148
Q2529-10	TP-30	Decachlorobiphen	1	20	15.5	77		20	144
		Tetrachloro-m-xyl	1	20	16.8	84		19	148
		Decachlorobiphen	2	20	16.3	81		20	144
		Tetrachloro-m-xyl	2	20	18.9	94		19	148
I.BLK-PD089424.D	PIBLK-PD089424.D	Decachlorobiphen	1	20	21.6	108		57	171
		Tetrachloro-m-xyl	1	20	20.9	104		61	148
		Decachlorobiphen	2	20	23.3	117		57	171
		Tetrachloro-m-xyl	2	20	24.3	121		61	148

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	Q2529	Analytical Method:	8081B
Client:	CDM Smith	DataFile :	PD089405.D

	Parameter	Spike	Sample		Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits		RPD
			Result								High		
Lab Sample ID:	Q2517-01MS (Column 1)	Client Sample ID:		TP-14MS									
	alpha-BHC	18.96	0	17.8	ug/kg	94				60	144		
	beta-BHC	18.96	0	17.7	ug/kg	93				54	143		
	delta-BHC	18.96	0	19.1	ug/kg	101				29	151		
	gamma-BHC (Lindane)	18.96	0	17.9	ug/kg	94				61	140		
	Heptachlor	18.96	0	18.2	ug/kg	96				63	135		
	Aldrin	18.96	0	18.3	ug/kg	97				49	139		
	Heptachlor epoxide	18.96	0	17.9	ug/kg	94				41	156		
	Endosulfan I	18.96	0	18.0	ug/kg	95				56	142		
	Dieldrin	18.96	0	18.1	ug/kg	95				47	161		
	4,4'-DDE	18.96	0	18.1	ug/kg	95				55	136		
	Endrin	18.96	0	18.2	ug/kg	96				57	139		
	Endosulfan II	18.96	0	14.6	ug/kg	77				40	163		
	4,4'-DDD	18.96	0	18.4	ug/kg	97				47	163		
	Endosulfan sulfate	18.96	0	17.7	ug/kg	93				62	139		
	4,4'-DDT	18.96	0	18.2	ug/kg	96				51	146		
	Methoxychlor	18.96	0	17.8	ug/kg	94				54	136		
	Endrin ketone	18.96	0	18.2	ug/kg	96				60	129		
	Endrin aldehyde	18.96	0	18.0	ug/kg	95				59	132		
	alpha-Chlordane	18.96	0	17.9	ug/kg	94				39	166		
	gamma-Chlordane	18.96	0	17.3	ug/kg	91				44	175		
Lab Sample ID:	Q2517-01MS (Column 2)	Client Sample ID:		TP-14MS									
	alpha-BHC	18.96	0	18.7	ug/kg	99				60	144		
	beta-BHC	18.96	0	18.3	ug/kg	97				54	143		
	delta-BHC	18.96	0	18.8	ug/kg	99				29	151		
	gamma-BHC (Lindane)	18.96	0	18.7	ug/kg	99				61	140		
	Heptachlor	18.96	0	18.5	ug/kg	98				63	135		
	Aldrin	18.96	0	18.7	ug/kg	99				49	139		
	Heptachlor epoxide	18.96	0	18.6	ug/kg	98				41	156		
	Endosulfan I	18.96	0	18.6	ug/kg	98				56	142		
	Dieldrin	18.96	0	18.6	ug/kg	98				47	161		
	4,4'-DDE	18.96	0	18.8	ug/kg	99				55	136		
	Endrin	18.96	0	18.2	ug/kg	96				57	139		
	Endosulfan II	18.96	0	18.7	ug/kg	99				40	163		
	4,4'-DDD	18.96	0	17.4	ug/kg	92				47	163		
	Endosulfan sulfate	18.96	0	18.3	ug/kg	97				62	139		

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PD089405.D</u>

Parameter	Spike	Sample		Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits		RPD
		Result	Result							High		
4,4'-DDT	18.96	0	18.7	ug/kg	99				51	146		
Methoxychlor	18.96	0	18.1	ug/kg	95				54	136		
Endrin ketone	18.96	0	18.7	ug/kg	99				60	129		
Endrin aldehyde	18.96	0	18.4	ug/kg	97				59	132		
alpha-Chlordane	18.96	0	19.1	ug/kg	101				39	166		
gamma-Chlordane	18.96	0	18.2	ug/kg	96				44	175		

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2529 Analytical Method: 8081B
Client: CDM Smith DataFile : PD089406.D

	Parameter	Spike	Sample			Rec	Rec		RPD		Limits	
			Result	Result	Units		Qual	RPD	Qual	Low	High	RPD
Lab Sample ID:	Q2517-01MSD (Column 1)	Client Sample ID:		TP-14MSD								
	alpha-BHC	18.95	0	18.1	ug/kg	96		2		60	144	20
	beta-BHC	18.95	0	17.9	ug/kg	94		1		54	143	20
	delta-BHC	18.95	0	19.4	ug/kg	102		1		29	151	20
	gamma-BHC (Lindane)	18.95	0	18.3	ug/kg	97		3		61	140	20
	Heptachlor	18.95	0	18.5	ug/kg	98		2		63	135	20
	Aldrin	18.95	0	18.3	ug/kg	97		0		49	139	20
	Heptachlor epoxide	18.95	0	18.1	ug/kg	96		2		41	156	20
	Endosulfan I	18.95	0	18.2	ug/kg	96		1		56	142	20
	Dieldrin	18.95	0	18.3	ug/kg	97		2		47	161	20
	4,4'-DDE	18.95	0	18.3	ug/kg	97		2		55	136	20
	Endrin	18.95	0	18.4	ug/kg	97		1		57	139	20
	Endosulfan II	18.95	0	14.6	ug/kg	77		0		40	163	20
	4,4'-DDD	18.95	0	18.7	ug/kg	99		2		47	163	20
	Endosulfan sulfate	18.95	0	17.8	ug/kg	94		1		62	139	20
	4,4'-DDT	18.95	0	18.4	ug/kg	97		1		51	146	20
	Methoxychlor	18.95	0	18.0	ug/kg	95		1		54	136	20
	Endrin ketone	18.95	0	18.3	ug/kg	97		1		60	129	20
	Endrin aldehyde	18.95	0	18.3	ug/kg	97		2		59	132	20
	alpha-Chlordane	18.95	0	18.1	ug/kg	96		2		39	166	20
	gamma-Chlordane	18.95	0	17.5	ug/kg	92		1		44	175	20
Lab Sample ID:	Q2517-01MSD (Column 2)	Client Sample ID:		TP-14MSD								
	alpha-BHC	18.95	0	19.0	ug/kg	100		1		60	144	20
	beta-BHC	18.95	0	18.7	ug/kg	99		2		54	143	20
	delta-BHC	18.95	0	19.1	ug/kg	101		2		29	151	20
	gamma-BHC (Lindane)	18.95	0	19.1	ug/kg	101		2		61	140	20
	Heptachlor	18.95	0	18.9	ug/kg	100		2		63	135	20
	Aldrin	18.95	0	19.1	ug/kg	101		2		49	139	20
	Heptachlor epoxide	18.95	0	18.8	ug/kg	99		1		41	156	20
	Endosulfan I	18.95	0	18.9	ug/kg	100		2		56	142	20
	Dieldrin	18.95	0	18.9	ug/kg	100		2		47	161	20
	4,4'-DDE	18.95	0	19.1	ug/kg	101		2		55	136	20
	Endrin	18.95	0	18.5	ug/kg	98		2		57	139	20
	Endosulfan II	18.95	0	18.8	ug/kg	99		0		40	163	20
	4,4'-DDD	18.95	0	17.7	ug/kg	93		1		47	163	20
	Endosulfan sulfate	18.95	0	18.5	ug/kg	98		1		62	139	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PD089406.D</u>

Parameter	Spike	Sample		Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits	
		Result	Result							High	RPD
4,4'-DDT	18.95	0	18.9	ug/kg	100		1		51	146	20
Methoxychlor	18.95	0	18.2	ug/kg	96		1		54	136	20
Endrin ketone	18.95	0	18.8	ug/kg	99		0		60	129	20
Endrin aldehyde	18.95	0	18.5	ug/kg	98		1		59	132	20
alpha-Chlordane	18.95	0	19.5	ug/kg	103		2		39	166	20
gamma-Chlordane	18.95	0	18.5	ug/kg	98		2		44	175	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q2529	Analytical Method:	8081B
Client:	CDM Smith	Datafile :	PD089403.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168765BS (Column 1)	alpha-BHC	16.66	18.1	ug/kg	109				84	123	
	beta-BHC	16.66	17.2	ug/kg	103				82	123	
	delta-BHC	16.66	19.3	ug/kg	116				83	126	
	gamma-BHC (Lindane)	16.66	18.1	ug/kg	109				83	125	
	Heptachlor	16.66	18.6	ug/kg	112				83	122	
	Aldrin	16.66	18.4	ug/kg	110				82	124	
	Heptachlor epoxide	16.66	18.1	ug/kg	109				83	120	
	Endosulfan I	16.66	18.4	ug/kg	110				81	124	
	Dieldrin	16.66	18.6	ug/kg	112				85	121	
	4,4'-DDE	16.66	18.6	ug/kg	112				81	123	
	Endrin	16.66	17.9	ug/kg	107				76	130	
	Endosulfan II	16.66	18.6	ug/kg	112				80	125	
	4,4'-DDD	16.66	18.6	ug/kg	112				80	131	
	Endosulfan sulfate	16.66	18.4	ug/kg	110				81	122	
	4,4'-DDT	16.66	18.8	ug/kg	113				70	129	
	Methoxychlor	16.66	18.0	ug/kg	108				60	119	
	Endrin ketone	16.66	18.9	ug/kg	113				77	132	
	Endrin aldehyde	16.66	18.5	ug/kg	111				79	124	
	alpha-Chlordane	16.66	18.2	ug/kg	109				84	120	
	gamma-Chlordane	16.66	18.5	ug/kg	111				83	122	
PB168765BS (Column 2)	alpha-BHC	16.66	18.9	ug/kg	113				84	123	
	beta-BHC	16.66	18.6	ug/kg	112				82	123	
	delta-BHC	16.66	19.0	ug/kg	114				83	126	
	gamma-BHC (Lindane)	16.66	19.0	ug/kg	114				83	125	
	Heptachlor	16.66	18.8	ug/kg	113				83	122	
	Aldrin	16.66	19.1	ug/kg	115				82	124	
	Heptachlor epoxide	16.66	19.2	ug/kg	115				83	120	
	Endosulfan I	16.66	19.2	ug/kg	115				81	124	
	Dieldrin	16.66	19.1	ug/kg	115				85	121	
	4,4'-DDE	16.66	19.1	ug/kg	115				81	123	
	Endrin	16.66	18.0	ug/kg	108				76	130	
	Endosulfan II	16.66	19.1	ug/kg	115				80	125	
	4,4'-DDD	16.66	19.2	ug/kg	115				80	131	
	Endosulfan sulfate	16.66	19.1	ug/kg	115				81	122	
	4,4'-DDT	16.66	19.1	ug/kg	115				70	129	
	Methoxychlor	16.66	18.2	ug/kg	109				60	119	
	Endrin ketone	16.66	19.4	ug/kg	116				77	132	
	Endrin aldehyde	16.66	19.0	ug/kg	114				79	124	
	alpha-Chlordane	16.66	18.9	ug/kg	113				84	120	
	gamma-Chlordane	16.66	18.9	ug/kg	113				83	122	

4C

PESTICIDE METHOD BLANK SUMMARY

Client ID

PB168765BL

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: PB168765BL

Lab File ID: PD089402.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 07/09/2025

Date Analyzed (1): 07/09/2025

Date Analyzed (2): 07/09/2025

Time Analyzed (1): 14:08

Time Analyzed (2): 14:08

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
PB168765BS	PB168765BS	PD089403.D	07/09/2025	07/09/2025
TP-14MS	Q2517-01MS	PD089405.D	07/09/2025	07/09/2025
TP-14MSD	Q2517-01MSD	PD089406.D	07/09/2025	07/09/2025
TP-91	Q2529-01	PD089414.D	07/09/2025	07/09/2025
TP-80	Q2529-02	PD089415.D	07/09/2025	07/09/2025
TP-79	Q2529-03	PD089416.D	07/09/2025	07/09/2025
TP-95	Q2529-04	PD089417.D	07/09/2025	07/09/2025
TP-98	Q2529-05	PD089418.D	07/09/2025	07/09/2025
TP-102	Q2529-06	PD089419.D	07/09/2025	07/09/2025
TP-101	Q2529-07	PD089420.D	07/09/2025	07/09/2025
TP-89	Q2529-08	PD089421.D	07/09/2025	07/09/2025
TP-33	Q2529-09	PD089422.D	07/09/2025	07/09/2025
TP-30	Q2529-10	PD089423.D	07/09/2025	07/09/2025

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168765BL	SDG No.:	Q2529
Lab Sample ID:	PB168765BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100
Sample Wt/Vol:	30.02 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
PD089402.D	1	07/09/25 08:20	07/09/25 14:08	PB168765

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	19.1		20 - 144	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		19 - 148	92%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:		
Project:	South River WM Replacement		Date Received:		
Client Sample ID:	PB168765BL		SDG No.:	Q2529	
Lab Sample ID:	PB168765BL		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	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
PD089402.D	1	07/09/25 08:20	07/09/25 14:08	PB168765

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

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.:	Q2529
Lab Sample ID:	I.BLK-PD088990.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
		Injection Volume :	

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

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.:	Q2529	
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

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-PD089399.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PD089399.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089399.D	1		07/09/25	pd070925

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	23.9		57 - 171	120%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.1		61 - 148	115%	SPK: 20

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-PD089399.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PD089399.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089399.D	1		07/09/25	pd070925

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

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-PD089412.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PD089412.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089412.D	1		07/09/25	pd070925

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	21.5		57 - 171	107%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.1		61 - 148	115%	SPK: 20

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-PD089412.D		SDG No.:	Q2529	
Lab Sample ID:	I.BLK-PD089412.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
PD089412.D	1		07/09/25	pd070925

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

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-PD089424.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PD089424.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089424.D	1		07/09/25	pd070925

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	24.3		61 - 148	121%	SPK: 20

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-PD089424.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PD089424.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089424.D	1		07/09/25	pd070925

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168765BS	SDG No.:	Q2529
Lab Sample ID:	PB168765BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089403.D	1	07/09/25 08:20	07/09/25 14:21	PB168765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.9		0.13	1.70	ug/kg
319-85-7	beta-BHC	18.6		0.18	1.70	ug/kg
319-86-8	delta-BHC	19.3		0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	19.0		0.14	1.70	ug/kg
76-44-8	Heptachlor	18.8		0.12	1.70	ug/kg
309-00-2	Aldrin	19.1		0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	19.2		0.19	1.70	ug/kg
959-98-8	Endosulfan I	19.2		0.14	1.70	ug/kg
60-57-1	Dieldrin	19.1		0.14	1.70	ug/kg
72-55-9	4,4-DDE	19.1		0.14	1.70	ug/kg
72-20-8	Endrin	18.0		0.14	1.70	ug/kg
33213-65-9	Endosulfan II	19.1		0.29	1.70	ug/kg
72-54-8	4,4-DDD	19.2		0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	19.1		0.13	1.70	ug/kg
50-29-3	4,4-DDT	19.1		0.14	1.70	ug/kg
72-43-5	Methoxychlor	18.2		0.37	1.70	ug/kg
53494-70-5	Endrin ketone	19.4		0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	19.0		0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	18.9		0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	18.9		0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.2		20 - 144	101%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.9		19 - 148	95%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168765BS	SDG No.:	Q2529
Lab Sample ID:	PB168765BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089403.D	1	07/09/25 08:20	07/09/25 14:21	PB168765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	CDM Smith			Date Collected:	07/07/25	
Project:	South River WM Replacement			Date Received:	07/07/25	
Client Sample ID:	TP-14MS			SDG No.:	Q2529	
Lab Sample ID:	Q2517-01MS			Matrix:	SOIL	
Analytical Method:	8081B			% Solid:	87.8	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
PD089405.D	1	07/09/25 08:20	07/09/25 15:18	PB168765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.7		0.15	1.90	ug/kg
319-85-7	beta-BHC	18.3		0.20	1.90	ug/kg
319-86-8	delta-BHC	19.1		0.44	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	18.7		0.16	1.90	ug/kg
76-44-8	Heptachlor	18.5		0.14	1.90	ug/kg
309-00-2	Aldrin	18.7		0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	18.6		0.22	1.90	ug/kg
959-98-8	Endosulfan I	18.6		0.16	1.90	ug/kg
60-57-1	Dieldrin	18.6		0.16	1.90	ug/kg
72-55-9	4,4-DDE	18.8		0.16	1.90	ug/kg
72-20-8	Endrin	18.2		0.16	1.90	ug/kg
33213-65-9	Endosulfan II	18.7		0.33	1.90	ug/kg
72-54-8	4,4-DDD	18.4		0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	18.3		0.15	1.90	ug/kg
50-29-3	4,4-DDT	18.7		0.16	1.90	ug/kg
72-43-5	Methoxychlor	18.1		0.42	1.90	ug/kg
53494-70-5	Endrin ketone	18.7		0.22	1.90	ug/kg
7421-93-4	Endrin aldehyde	18.4		0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	19.1		0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	18.2		0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.20	U	6.20	37.5	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.0		20 - 144	110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.9		19 - 148	104%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MS	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	87.8
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089405.D	1	07/09/25 08:20	07/09/25 15:18	PB168765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates >25% difference for detected concentrations between the two GC columns	S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit
M = MS/MSD acceptance criteria did not meet requirements	

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MSD	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	87.8
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089406.D	1	07/09/25 08:20	07/09/25 15:31	PB168765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	19.0		0.15	1.90	ug/kg
319-85-7	beta-BHC	18.7		0.20	1.90	ug/kg
319-86-8	delta-BHC	19.4		0.44	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	19.1		0.16	1.90	ug/kg
76-44-8	Heptachlor	18.9		0.14	1.90	ug/kg
309-00-2	Aldrin	19.1		0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	18.8		0.22	1.90	ug/kg
959-98-8	Endosulfan I	18.9		0.16	1.90	ug/kg
60-57-1	Dieldrin	18.9		0.16	1.90	ug/kg
72-55-9	4,4-DDE	19.1		0.16	1.90	ug/kg
72-20-8	Endrin	18.5		0.16	1.90	ug/kg
33213-65-9	Endosulfan II	18.8		0.33	1.90	ug/kg
72-54-8	4,4-DDD	18.7		0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	18.5		0.15	1.90	ug/kg
50-29-3	4,4-DDT	18.9		0.16	1.90	ug/kg
72-43-5	Methoxychlor	18.2		0.42	1.90	ug/kg
53494-70-5	Endrin ketone	18.8		0.22	1.90	ug/kg
7421-93-4	Endrin aldehyde	18.5		0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	19.5		0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	18.5		0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.20	U	6.20	37.5	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.0		20 - 144	110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.1		19 - 148	105%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MSD	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	87.8
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089406.D	1	07/09/25 08:20	07/09/25 15:31	PB168765

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

RETENTION TIMES OF INITIAL CALIBRATION

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Instrument ID:	<u>ECD_D</u>	Calibration Date(s):	<u>06/17/2025</u> <u>06/17/2025</u>
		Calibration Times:	<u>15:52</u> <u>16:47</u>

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

LAB FILE ID:	RT 100 = <u>PD088993.D</u>	RT 075 = <u>PD088994.D</u>
	RT 050 = <u>PD088995.D</u>	RT 025 = <u>PD088996.D</u>
		RT 005 = <u>PD088997.D</u>

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW	
							FROM	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

RETENTION TIMES OF INITIAL CALIBRATION

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Instrument ID:	<u>ECD_D</u>	Calibration Date(s):	<u>06/17/2025</u> <u>06/17/2025</u>
		Calibration Times:	<u>15:52</u> <u>16:47</u>

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

LAB FILE ID:	RT 100 = <u>PD088993.D</u>	RT 075 = <u>PD088994.D</u>
	RT 050 = <u>PD088995.D</u>	RT 025 = <u>PD088996.D</u>
		RT 005 = <u>PD088997.D</u>

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW	
							FROM	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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: CAMP02
SDG NO.: Q2529

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 =	<u>PD088993.D</u>	CF 075 =	<u>PD088994.D</u>		
CF 050 =		<u>PD088995.D</u>	CF 025 =	<u>PD088996.D</u>	CF 005 =	<u>PD088997.D</u>	
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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: CAMP02
SDG NO.: Q2529

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 =	<u>PD088993.D</u>	CF 075 =	<u>PD088994.D</u>		
CF 050 =	<u>PD088995.D</u>	CF 025 =	<u>PD088996.D</u>	CF 005 =	<u>PD088997.D</u>		
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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

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		CALIBRATION FACTOR
				FROM	TO	
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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

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		CALIBRATION FACTOR
				FROM	TO	
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

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/09/2025</u>	Initial Calibration Date(s):	<u>06/17/2025</u> <u>06/17/2025</u>
Continuing Calib Time:	<u>13:54</u>	Initial Calibration Time(s):	<u>15:52</u> <u>16:47</u>

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.08	9.07	8.97	9.17	-0.01
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	-0.01
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	5.28	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	6.35	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	0.00
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	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.49	7.39	7.59	-0.01
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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Continuing Calib Date: 07/09/2025

Initial Calibration Date(s): 06/17/2025

06/17/2025

Continuing Calib Time: 13:54

Initial Calibration Time(s): 15:52

16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
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	4.02	4.03	3.93	4.13	0.01
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	5.37	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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/09/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089401.D **Time Analyzed:** 13:54

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.709	6.605	6.805	47.640	50.000	-4.7
4,4'-DDE	6.200	6.096	6.296	47.460	50.000	-5.1
4,4'-DDT	7.025	6.921	7.121	47.840	50.000	-4.3
Aldrin	5.275	5.171	5.371	47.380	50.000	-5.2
alpha-BHC	4.003	3.899	4.099	47.780	50.000	-4.4
alpha-Chlordane	6.030	5.927	6.127	47.010	50.000	-6.0
beta-BHC	4.520	4.415	4.615	46.410	50.000	-7.2
Decachlorobiphenyl	9.076	8.972	9.172	52.120	50.000	4.2
delta-BHC	4.768	4.664	4.864	49.460	50.000	-1.1
Dieldrin	6.350	6.247	6.447	47.540	50.000	-4.9
Endosulfan I	6.078	5.975	6.175	47.010	50.000	-6.0
Endosulfan II	6.790	6.686	6.886	47.510	50.000	-5.0
Endosulfan sulfate	7.153	7.049	7.249	46.870	50.000	-6.3
Endrin	6.578	6.475	6.675	46.110	50.000	-7.8
Endrin aldehyde	6.919	6.815	7.015	46.450	50.000	-7.1
Endrin ketone	7.634	7.530	7.730	48.060	50.000	-3.9
gamma-BHC (Lindane)	4.334	4.230	4.430	47.510	50.000	-5.0
gamma-Chlordane	5.950	5.846	6.046	47.070	50.000	-5.9
Heptachlor	4.934	4.829	5.029	48.280	50.000	-3.4
Heptachlor epoxide	5.695	5.591	5.791	46.180	50.000	-7.6
Methoxychlor	7.497	7.393	7.593	46.680	50.000	-6.6
Tetrachloro-m-xylene	3.554	3.450	3.650	46.300	50.000	-7.4

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/09/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089401.D **Time Analyzed:** 13:54

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.928	5.830	6.030	48.630	50.000	-2.7
4,4'-DDE	5.373	5.275	5.475	48.820	50.000	-2.4
4,4'-DDT	6.182	6.084	6.284	48.690	50.000	-2.6
Aldrin	4.367	4.269	4.469	48.800	50.000	-2.4
alpha-BHC	3.391	3.293	3.493	48.860	50.000	-2.3
alpha-Chlordane	5.188	5.091	5.291	48.670	50.000	-2.7
beta-BHC	4.023	3.926	4.126	47.840	50.000	-4.3
Decachlorobiphenyl	8.070	7.972	8.172	55.930	50.000	11.9
delta-BHC	4.260	4.162	4.362	48.670	50.000	-2.7
Dieldrin	5.511	5.413	5.613	48.480	50.000	-3.0
Endosulfan I	5.245	5.147	5.347	49.330	50.000	-1.3
Endosulfan II	6.079	5.981	6.181	48.430	50.000	-3.1
Endosulfan sulfate	6.481	6.383	6.583	48.620	50.000	-2.8
Endrin	5.787	5.689	5.889	46.580	50.000	-6.8
Endrin aldehyde	6.257	6.159	6.359	47.770	50.000	-4.5
Endrin ketone	6.990	6.892	7.092	49.090	50.000	-1.8
gamma-BHC (Lindane)	3.726	3.630	3.830	48.780	50.000	-2.4
gamma-Chlordane	5.124	5.026	5.226	48.660	50.000	-2.7
Heptachlor	4.081	3.983	4.183	47.720	50.000	-4.6
Heptachlor epoxide	4.871	4.773	4.973	49.840	50.000	-0.3
Methoxychlor	6.752	6.655	6.855	46.240	50.000	-7.5
Tetrachloro-m-xylene	2.878	2.780	2.980	48.620	50.000	-2.8

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/09/2025</u>	Initial Calibration Date(s):	<u>06/17/2025</u> <u>06/17/2025</u>
Continuing Calib Time:	<u>17:24</u>	Initial Calibration Time(s):	<u>15:52</u> <u>16:47</u>

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.08	9.07	8.97	9.17	-0.01
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	-0.01
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	5.28	5.27	5.17	5.37	-0.01
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.00
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	0.00
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	7.50	7.49	7.39	7.59	-0.01
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

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/09/2025</u>	Initial Calibration Date(s):	<u>06/17/2025</u> <u>06/17/2025</u>
Continuing Calib Time:	<u>17:24</u>	Initial Calibration Time(s):	<u>15:52</u> <u>16:47</u>

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/09/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089413.D **Time Analyzed:** 17:24

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.708	6.605	6.805	45.880	50.000	-8.2
4,4'-DDE	6.199	6.096	6.296	45.280	50.000	-9.4
4,4'-DDT	7.024	6.921	7.121	43.960	50.000	-12.1
Aldrin	5.275	5.171	5.371	46.570	50.000	-6.9
alpha-BHC	4.003	3.899	4.099	47.370	50.000	-5.3
alpha-Chlordane	6.030	5.927	6.127	45.680	50.000	-8.6
beta-BHC	4.519	4.415	4.615	46.220	50.000	-7.6
Decachlorobiphenyl	9.076	8.972	9.172	50.570	50.000	1.1
delta-BHC	4.768	4.664	4.864	49.070	50.000	-1.9
Dieldrin	6.351	6.247	6.447	45.940	50.000	-8.1
Endosulfan I	6.078	5.975	6.175	45.610	50.000	-8.8
Endosulfan II	6.790	6.686	6.886	45.590	50.000	-8.8
Endosulfan sulfate	7.152	7.049	7.249	44.200	50.000	-11.6
Endrin	6.578	6.475	6.675	44.880	50.000	-10.2
Endrin aldehyde	6.918	6.815	7.015	43.500	50.000	-13.0
Endrin ketone	7.634	7.530	7.730	45.050	50.000	-9.9
gamma-BHC (Lindane)	4.334	4.230	4.430	46.980	50.000	-6.0
gamma-Chlordane	5.949	5.846	6.046	45.780	50.000	-8.4
Heptachlor	4.933	4.829	5.029	47.130	50.000	-5.7
Heptachlor epoxide	5.694	5.591	5.791	45.010	50.000	-10.0
Methoxychlor	7.496	7.393	7.593	42.190	50.000	-15.6
Tetrachloro-m-xylene	3.554	3.450	3.650	45.900	50.000	-8.2

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/09/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089413.D **Time Analyzed:** 17:24

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.929	5.830	6.030	47.540	50.000	-4.9
4,4'-DDE	5.375	5.275	5.475	47.860	50.000	-4.3
4,4'-DDT	6.183	6.084	6.284	46.570	50.000	-6.9
Aldrin	4.368	4.269	4.469	48.690	50.000	-2.6
alpha-BHC	3.393	3.293	3.493	49.090	50.000	-1.8
alpha-Chlordane	5.190	5.091	5.291	48.060	50.000	-3.9
beta-BHC	4.025	3.926	4.126	48.020	50.000	-4.0
Decachlorobiphenyl	8.073	7.972	8.172	52.410	50.000	4.8
delta-BHC	4.262	4.162	4.362	48.870	50.000	-2.3
Dieldrin	5.511	5.413	5.613	47.660	50.000	-4.7
Endosulfan I	5.246	5.147	5.347	48.310	50.000	-3.4
Endosulfan II	6.080	5.981	6.181	46.980	50.000	-6.0
Endosulfan sulfate	6.482	6.383	6.583	46.970	50.000	-6.1
Endrin	5.789	5.689	5.889	46.740	50.000	-6.5
Endrin aldehyde	6.258	6.159	6.359	46.010	50.000	-8.0
Endrin ketone	6.992	6.892	7.092	46.480	50.000	-7.0
gamma-BHC (Lindane)	3.728	3.630	3.830	48.710	50.000	-2.6
gamma-Chlordane	5.125	5.026	5.226	48.280	50.000	-3.4
Heptachlor	4.082	3.983	4.183	47.870	50.000	-4.3
Heptachlor epoxide	4.871	4.773	4.973	48.190	50.000	-3.6
Methoxychlor	6.754	6.655	6.855	44.730	50.000	-10.5
Tetrachloro-m-xylene	2.880	2.780	2.980	48.850	50.000	-2.3

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/09/2025</u>	Initial Calibration Date(s):	<u>06/17/2025</u> <u>06/17/2025</u>
Continuing Calib Time:	<u>20:09</u>	Initial Calibration Time(s):	<u>15:52</u> <u>16:47</u>

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
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	0.01
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	0.01
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	0.01
4,4'-DDD	6.70	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	6.91	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

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/09/2025</u>	Initial Calibration Date(s):	<u>06/17/2025</u> <u>06/17/2025</u>
Continuing Calib Time:	<u>20:09</u>	Initial Calibration Time(s):	<u>15:52</u> <u>16:47</u>

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/09/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089425.D **Time Analyzed:** 20:09

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.704	6.605	6.805	46.270	50.000	-7.5
4,4'-DDE	6.195	6.096	6.296	45.890	50.000	-8.2
4,4'-DDT	7.020	6.921	7.121	44.560	50.000	-10.9
Aldrin	5.270	5.171	5.371	47.300	50.000	-5.4
alpha-BHC	3.999	3.899	4.099	48.090	50.000	-3.8
alpha-Chlordane	6.026	5.927	6.127	46.070	50.000	-7.9
beta-BHC	4.515	4.415	4.615	46.700	50.000	-6.6
Decachlorobiphenyl	9.071	8.972	9.172	51.740	50.000	3.5
delta-BHC	4.764	4.664	4.864	50.340	50.000	0.7
Dieldrin	6.345	6.247	6.447	46.270	50.000	-7.5
Endosulfan I	6.074	5.975	6.175	46.060	50.000	-7.9
Endosulfan II	6.785	6.686	6.886	45.820	50.000	-8.4
Endosulfan sulfate	7.148	7.049	7.249	44.990	50.000	-10.0
Endrin	6.573	6.475	6.675	44.280	50.000	-11.4
Endrin aldehyde	6.914	6.815	7.015	44.150	50.000	-11.7
Endrin ketone	7.629	7.530	7.730	45.340	50.000	-9.3
gamma-BHC (Lindane)	4.330	4.230	4.430	47.870	50.000	-4.3
gamma-Chlordane	5.945	5.846	6.046	46.360	50.000	-7.3
Heptachlor	4.929	4.829	5.029	47.400	50.000	-5.2
Heptachlor epoxide	5.690	5.591	5.791	46.080	50.000	-7.8
Methoxychlor	7.491	7.393	7.593	42.620	50.000	-14.8
Tetrachloro-m-xylene	3.550	3.450	3.650	46.860	50.000	-6.3

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/09/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089425.D **Time Analyzed:** 20:09

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.928	5.830	6.030	49.490	50.000	-1.0
4,4'-DDE	5.374	5.275	5.475	49.540	50.000	-0.9
4,4'-DDT	6.182	6.084	6.284	47.780	50.000	-4.4
Aldrin	4.368	4.269	4.469	50.210	50.000	0.4
alpha-BHC	3.393	3.293	3.493	50.410	50.000	0.8
alpha-Chlordane	5.189	5.091	5.291	49.500	50.000	-1.0
beta-BHC	4.025	3.926	4.126	49.730	50.000	-0.5
Decachlorobiphenyl	8.071	7.972	8.172	54.420	50.000	8.8
delta-BHC	4.261	4.162	4.362	50.380	50.000	0.8
Dieldrin	5.512	5.413	5.613	49.390	50.000	-1.2
Endosulfan I	5.246	5.147	5.347	49.970	50.000	-0.1
Endosulfan II	6.079	5.981	6.181	48.500	50.000	-3.0
Endosulfan sulfate	6.481	6.383	6.583	48.470	50.000	-3.1
Endrin	5.788	5.689	5.889	47.750	50.000	-4.5
Endrin aldehyde	6.258	6.159	6.359	47.430	50.000	-5.1
Endrin ketone	6.990	6.892	7.092	48.230	50.000	-3.5
gamma-BHC (Lindane)	3.728	3.630	3.830	50.320	50.000	0.6
gamma-Chlordane	5.124	5.026	5.226	49.780	50.000	-0.4
Heptachlor	4.082	3.983	4.183	49.380	50.000	-1.2
Heptachlor epoxide	4.872	4.773	4.973	51.060	50.000	2.1
Methoxychlor	6.753	6.655	6.855	45.850	50.000	-8.3
Tetrachloro-m-xylene	2.881	2.780	2.980	50.370	50.000	0.7

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

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		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
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		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089400.D Date Analyzed: 07/09/2025

Lab Sample No.(PEM): PEM Time Analyzed: 13:22

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.081	8.980	9.180	23.500	20.000	17.5
Tetrachloro-m-xylene	3.556	3.510	3.610	22.740	20.000	13.7
alpha-BHC	4.006	3.960	4.060	10.770	10.000	7.7
beta-BHC	4.523	4.470	4.570	11.770	10.000	17.7
gamma-BHC (Lindane)	4.337	4.290	4.390	11.220	10.000	12.2
Endrin	6.581	6.510	6.650	57.850	50.000	15.7
4,4'-DDT	7.028	6.960	7.100	118.490	100.000	18.5
Methoxychlor	7.500	7.430	7.570	265.990	250.000	6.4

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089400.D Date Analyzed: 07/09/2025

Lab Sample No.(PEM): PEM Time Analyzed: 13:22

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	8.072	7.970	8.170	25.160	20.000	25.8
Tetrachloro-m-xylene	2.878	2.830	2.930	24.700	20.000	23.5
alpha-BHC	3.391	3.340	3.440	12.900	10.000	29.0
beta-BHC	4.024	3.970	4.070	12.710	10.000	27.1
gamma-BHC (Lindane)	3.728	3.680	3.780	12.690	10.000	26.9
Endrin	5.788	5.720	5.860	55.550	50.000	11.1
4,4'-DDT	6.183	6.110	6.250	112.280	100.000	12.3
Methoxychlor	6.753	6.680	6.820	213.420	250.000	-14.6

Analytical Sequence

Client: CDM Smith

SDG No.: Q2529

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 #
IBLK	IBLK	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
IBLK	IBLK	07/09/2025	11:14	PD089399.D	9.08	3.56
PEM	PEM	07/09/2025	13:22	PD089400.D	9.08	3.56
PSTDCCC050	PSTDCCC050	07/09/2025	13:54	PD089401.D	9.08	3.55
PB168765BL	PB168765BL	07/09/2025	14:08	PD089402.D	9.07	3.55
PB168765BS	PB168765BS	07/09/2025	14:21	PD089403.D	9.07	3.55
TP-14MS	Q2517-01MS	07/09/2025	15:18	PD089405.D	9.07	3.55
TP-14MSD	Q2517-01MSD	07/09/2025	15:31	PD089406.D	9.07	3.55
IBLK	IBLK	07/09/2025	16:54	PD089412.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/09/2025	17:24	PD089413.D	9.08	3.55
TP-91	Q2529-01	07/09/2025	17:39	PD089414.D	9.07	3.55
TP-80	Q2529-02	07/09/2025	17:52	PD089415.D	9.07	3.55
TP-79	Q2529-03	07/09/2025	18:06	PD089416.D	9.07	3.55
TP-95	Q2529-04	07/09/2025	18:20	PD089417.D	9.07	3.55
TP-98	Q2529-05	07/09/2025	18:33	PD089418.D	9.07	3.55
TP-102	Q2529-06	07/09/2025	18:47	PD089419.D	9.07	3.55
TP-101	Q2529-07	07/09/2025	19:01	PD089420.D	9.07	3.55
TP-89	Q2529-08	07/09/2025	19:14	PD089421.D	9.07	3.55
TP-33	Q2529-09	07/09/2025	19:28	PD089422.D	9.07	3.55
TP-30	Q2529-10	07/09/2025	19:42	PD089423.D	9.07	3.55
IBLK	IBLK	07/09/2025	19:55	PD089424.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/09/2025	20:09	PD089425.D	9.07	3.55

Analytical Sequence

Client: CDM Smith	SDG No.: Q2529
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 #
IBLK	IBLK	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
IBLK	IBLK	07/09/2025	11:14	PD089399.D	8.07	2.88
PEM	PEM	07/09/2025	13:22	PD089400.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/09/2025	13:54	PD089401.D	8.07	2.88
PB168765BL	PB168765BL	07/09/2025	14:08	PD089402.D	8.07	2.88
PB168765BS	PB168765BS	07/09/2025	14:21	PD089403.D	8.07	2.88
TP-14MS	Q2517-01MS	07/09/2025	15:18	PD089405.D	8.07	2.88
TP-14MSD	Q2517-01MSD	07/09/2025	15:31	PD089406.D	8.07	2.88
IBLK	IBLK	07/09/2025	16:54	PD089412.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/09/2025	17:24	PD089413.D	8.07	2.88
TP-91	Q2529-01	07/09/2025	17:39	PD089414.D	8.07	2.88
TP-80	Q2529-02	07/09/2025	17:52	PD089415.D	8.07	2.88
TP-79	Q2529-03	07/09/2025	18:06	PD089416.D	8.07	2.88
TP-95	Q2529-04	07/09/2025	18:20	PD089417.D	8.07	2.88
TP-98	Q2529-05	07/09/2025	18:33	PD089418.D	8.07	2.88
TP-102	Q2529-06	07/09/2025	18:47	PD089419.D	8.07	2.88
TP-101	Q2529-07	07/09/2025	19:01	PD089420.D	8.07	2.88
TP-89	Q2529-08	07/09/2025	19:14	PD089421.D	8.07	2.88
TP-33	Q2529-09	07/09/2025	19:28	PD089422.D	8.07	2.88
TP-30	Q2529-10	07/09/2025	19:42	PD089423.D	8.07	2.88
IBLK	IBLK	07/09/2025	19:55	PD089424.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/09/2025	20:09	PD089425.D	8.07	2.88

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168765BS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: PB168765BS

Date(s) Analyzed: 07/09/2025 07/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.70	6.65	6.75	18.6	3.2
	2	5.93	5.88	5.98	19.2	
4,4'-DDE	1	6.20	6.15	6.25	18.6	2.7
	2	5.37	5.32	5.42	19.1	
4,4'-DDT	1	7.02	6.97	7.07	18.8	1.6
	2	6.18	6.13	6.23	19.1	
alpha-BHC	1	4.00	3.95	4.05	18.1	4.3
	2	3.39	3.34	3.44	18.9	
Aldrin	1	5.27	5.22	5.32	18.4	3.7
	2	4.37	4.32	4.42	19.1	
alpha-Chlordane	1	6.03	5.98	6.08	18.2	3.8
	2	5.19	5.14	5.24	18.9	
Endosulfan II	1	6.78	6.73	6.83	18.6	2.7
	2	6.08	6.03	6.13	19.1	
Endosulfan sulfate	1	7.15	7.10	7.20	18.4	3.7
	2	6.48	6.43	6.53	19.1	
beta-BHC	1	4.52	4.47	4.57	17.2	7.8
	2	4.02	3.97	4.07	18.6	
delta-BHC	1	4.76	4.71	4.81	19.3	1.6
	2	4.26	4.21	4.31	19.0	
Endosulfan I	1	6.07	6.02	6.12	18.4	4.3
	2	5.25	5.20	5.30	19.2	
Dieldrin	1	6.35	6.30	6.40	18.6	2.7
	2	5.51	5.46	5.56	19.1	
Endrin aldehyde	1	6.91	6.86	6.96	18.5	2.7
	2	6.26	6.21	6.31	19.0	
Methoxychlor	1	7.49	7.44	7.54	18.0	1.1
	2	6.75	6.70	6.80	18.2	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168765BS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: PB168765BS

Date(s) Analyzed: 07/09/2025 07/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
Endrin ketone	1	7.63	7.58	7.68	18.9	2.6
	2	6.99	6.94	7.04	19.4	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	18.1	4.9
	2	3.73	3.68	3.78	19.0	
Heptachlor	1	4.93	4.88	4.98	18.6	1.1
	2	4.08	4.03	4.13	18.8	
Heptachlor epoxide	1	5.69	5.64	5.74	18.1	5.9
	2	4.87	4.82	4.92	19.2	
gamma-Chlordane	1	5.95	5.90	6.00	18.5	2.1
	2	5.12	5.07	5.17	18.9	
Endrin	1	6.57	6.52	6.62	17.9	0.6
	2	5.79	5.74	5.84	18.0	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-14MS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: Q2517-01MS

Date(s) Analyzed: 07/09/2025 07/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.70	6.65	6.75	18.4	5.6
	2	5.93	5.88	5.98	17.4	
4,4'-DDT	1	7.02	6.97	7.07	18.2	2.7
	2	6.18	6.13	6.23	18.7	
alpha-BHC	1	4.00	3.95	4.05	17.8	4.9
	2	3.39	3.34	3.44	18.7	
Aldrin	1	5.27	5.22	5.32	18.3	2.2
	2	4.37	4.32	4.42	18.7	
beta-BHC	1	4.52	4.47	4.57	17.7	3.3
	2	4.02	3.97	4.07	18.3	
alpha-Chlordane	1	6.03	5.98	6.08	17.9	6.5
	2	5.19	5.14	5.24	19.1	
4,4'-DDE	1	6.20	6.15	6.25	18.1	3.8
	2	5.37	5.32	5.42	18.8	
Endosulfan II	1	6.79	6.74	6.84	14.6	24.6
	2	6.08	6.03	6.13	18.7	
Endrin aldehyde	1	6.91	6.86	6.96	18.0	2.2
	2	6.26	6.21	6.31	18.4	
Endosulfan sulfate	1	7.15	7.10	7.20	17.7	3.3
	2	6.48	6.43	6.53	18.3	
Methoxychlor	1	7.49	7.44	7.54	17.8	1.7
	2	6.75	6.70	6.80	18.1	
Endrin ketone	1	7.63	7.58	7.68	18.2	2.7
	2	6.99	6.94	7.04	18.7	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	17.9	4.4
	2	3.73	3.68	3.78	18.7	
Heptachlor	1	4.93	4.88	4.98	18.2	1.6
	2	4.08	4.03	4.13	18.5	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-14MS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: Q2517-01MS

Date(s) Analyzed: 07/09/2025 07/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
delta-BHC	1	4.76	4.71	4.81	19.1	1.6
	2	4.26	4.21	4.31	18.8	
Heptachlor epoxide	1	5.69	5.64	5.74	17.9	3.8
	2	4.87	4.82	4.92	18.6	
Endosulfan I	1	6.07	6.02	6.12	18.0	3.3
	2	5.24	5.19	5.29	18.6	
gamma-Chlordane	1	5.95	5.90	6.00	17.3	5.1
	2	5.12	5.07	5.17	18.2	
Dieldrin	1	6.35	6.30	6.40	18.1	2.7
	2	5.51	5.46	5.56	18.6	
Endrin	1	6.57	6.52	6.62	18.2	0
	2	5.79	5.74	5.84	18.2	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-14MSD

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: Q2517-01MSD

Date(s) Analyzed: 07/09/2025 07/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan II	1	6.79	6.74	6.84	14.6	25.1
	2	6.08	6.03	6.13	18.8	
4,4'-DDD	1	6.70	6.65	6.75	18.7	5.5
	2	5.93	5.88	5.98	17.7	
4,4'-DDT	1	7.02	6.97	7.07	18.4	2.7
	2	6.18	6.13	6.23	18.9	
Endrin aldehyde	1	6.91	6.86	6.96	18.3	1.1
	2	6.26	6.21	6.31	18.5	
Endosulfan sulfate	1	7.15	7.10	7.20	17.8	3.9
	2	6.48	6.43	6.53	18.5	
alpha-BHC	1	4.00	3.95	4.05	18.1	4.9
	2	3.39	3.34	3.44	19.0	
Aldrin	1	5.27	5.22	5.32	18.3	4.3
	2	4.37	4.32	4.42	19.1	
beta-BHC	1	4.52	4.47	4.57	17.9	4.4
	2	4.02	3.97	4.07	18.7	
delta-BHC	1	4.76	4.71	4.81	19.4	1.6
	2	4.26	4.21	4.31	19.1	
Endosulfan I	1	6.07	6.02	6.12	18.2	3.8
	2	5.24	5.19	5.29	18.9	
alpha-Chlordane	1	6.03	5.98	6.08	18.1	7.4
	2	5.19	5.14	5.24	19.5	
4,4'-DDE	1	6.20	6.15	6.25	18.3	4.3
	2	5.37	5.32	5.42	19.1	
Dieldrin	1	6.35	6.30	6.40	18.3	3.2
	2	5.51	5.46	5.56	18.9	
Endrin	1	6.57	6.52	6.62	18.4	0.5
	2	5.79	5.74	5.84	18.5	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-14MSD

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: Q2517-01MSD

Date(s) Analyzed: 07/09/2025 07/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
Methoxychlor	1	7.49	7.44	7.54	18.0	1.1
	2	6.75	6.70	6.80	18.2	
Endrin ketone	1	7.63	7.58	7.68	18.3	2.7
	2	6.99	6.94	7.04	18.8	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	18.3	4.3
	2	3.73	3.68	3.78	19.1	
Heptachlor	1	4.93	4.88	4.98	18.5	2.1
	2	4.08	4.03	4.13	18.9	
Heptachlor epoxide	1	5.69	5.64	5.74	18.1	3.8
	2	4.87	4.82	4.92	18.8	
gamma-Chlordane	1	5.94	5.89	5.99	17.5	5.6
	2	5.12	5.07	5.17	18.5	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-80

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: Q2529-02

Date(s) Analyzed: 07/09/2025 07/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.02	6.97	7.07	0.30	61.5
	2	6.18	6.13	6.23	0.56	
Dieldrin	1	6.35	6.30	6.40	0.63	69.8
	2	5.51	5.46	5.56	1.30	
Endrin	1	6.58	6.53	6.63	0.60	14.7
	2	5.78	5.73	5.83	0.70	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-91

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: Q2529-01

Date(s) Analyzed: 07/09/2025 07/09/2025

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		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.02	6.97	7.07	0.30	54.4
	2	6.18	6.13	6.23	0.53	
4,4'-DDE	1	6.20	6.15	6.25	0.25	51.4
	2	5.37	5.32	5.42	0.42	

LAB CHRONICLE

OrderID:	Q2529	OrderDate:	7/8/2025 3:36:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	TP-91	SOIL			07/03/25			07/08/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-02	TP-80	SOIL			07/07/25			07/08/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-03	TP-79	SOIL			07/07/25			07/08/25
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-04	TP-95	SOIL			07/07/25			07/08/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-05	TP-98	SOIL			07/07/25			07/08/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-06	TP-102	SOIL			07/07/25			07/08/25
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-07	TP-101	SOIL			07/07/25			07/08/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	

LAB CHRONICLE

Q2529-08	TP-89	SOIL			07/08/25			07/08/25
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-09	TP-33	SOIL			07/08/25			07/08/25
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-10	TP-30	SOIL			07/08/25			07/08/25
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	



Hit Summary Sheet
SW-846

SDG No.:	Q2529	Order ID:	Q2529
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

A

B

C

D

E

F

G

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	90.9
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112143.D	1	07/09/25 08:20	07/09/25 18:17	PB168764

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.30	U	4.30	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	3.50	U	3.50	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.9		32 - 144	89%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.7		32 - 175	68%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	90.7
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112144.D	1	07/09/25 08:20	07/09/25 18:34	PB168764

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.30	U	4.30	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	18.7		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.6		32 - 175	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	90.6
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112145.D	1	07/09/25 08:20	07/09/25 18:52	PB168764

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.30	U	4.30	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	19.0		32 - 144	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.1		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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	83.7
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112146.D	1	07/09/25 08:20	07/09/25 19:09	PB168764

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.70	U	4.70	20.3	ug/kg
11104-28-2	Aroclor-1221	4.80	U	4.80	20.3	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	20.3	ug/kg
53469-21-9	Aroclor-1242	4.80	U	4.80	20.3	ug/kg
12672-29-6	Aroclor-1248	7.10	U	7.10	20.3	ug/kg
11097-69-1	Aroclor-1254	3.80	U	3.80	20.3	ug/kg
37324-23-5	Aroclor-1262	6.00	U	6.00	20.3	ug/kg
11100-14-4	Aroclor-1268	4.30	U	4.30	20.3	ug/kg
11096-82-5	Aroclor-1260	3.90	U	3.90	20.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.7		32 - 144	93%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	86.9
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112147.D	1	07/09/25 08:20	07/09/25 19:27	PB168764

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.50	U	4.50	19.6	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	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	3.70	U	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	4.10	U	4.10	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	21.5		32 - 144	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.1		32 - 175	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	95.6
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112148.D	1	07/09/25 08:20	07/09/25 19:45	PB168764

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.10	U	4.10	17.7	ug/kg
11104-28-2	Aroclor-1221	4.20	U	4.20	17.7	ug/kg
11141-16-5	Aroclor-1232	3.90	U	3.90	17.7	ug/kg
53469-21-9	Aroclor-1242	4.20	U	4.20	17.7	ug/kg
12672-29-6	Aroclor-1248	6.20	U	6.20	17.7	ug/kg
11097-69-1	Aroclor-1254	3.40	U	3.40	17.7	ug/kg
37324-23-5	Aroclor-1262	5.20	U	5.20	17.7	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	17.7	ug/kg
11096-82-5	Aroclor-1260	3.40	U	3.40	17.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.4		32 - 144	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.0		32 - 175	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	89.7
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112149.D	1	07/09/25 08:20	07/09/25 20:02	PB168764

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	19.7		32 - 144	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.4		32 - 175	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	90.1
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112155.D	1	07/09/25 08:20	07/09/25 23:15	PB168764

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.40	U	4.40	18.8	ug/kg
11104-28-2	Aroclor-1221	4.50	U	4.50	18.8	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.8	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.8	ug/kg
12672-29-6	Aroclor-1248	6.60	U	6.60	18.8	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	18.8	ug/kg
37324-23-5	Aroclor-1262	5.60	U	5.60	18.8	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	18.8	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	18.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.0		32 - 144	85%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	90.5
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112156.D	1	07/09/25 08:20	07/09/25 23:33	PB168764

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	18.5		32 - 144	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.2		32 - 175	96%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	91.4
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112157.D	1	07/09/25 08:20	07/09/25 23:52	PB168764

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	18.7		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.0		32 - 175	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



QC SUMMARY

A

B

C

D

E

F

G

Surrogate Summary

SDG No.: Q2529

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%)	
								Low	High
I.BLK-PO112087.D	PIBLK-PO112087.D	Tetrachloro-m-xyl	1	20	19.4	97		60	140
		Decachlorobiphen	1	20	18.8	94		60	140
		Tetrachloro-m-xyl	2	20	20.0	100		60	140
		Decachlorobiphen	2	20	19.3	97		60	140
I.BLK-PO112139.D	PIBLK-PO112139.D	Tetrachloro-m-xyl	1	20	17.9	89		60	140
		Decachlorobiphen	1	20	19.4	97		60	140
		Tetrachloro-m-xyl	2	20	17.6	88		60	140
		Decachlorobiphen	2	20	19.3	96		60	140
Q2529-01	TP-91	Tetrachloro-m-xyl	1	20	17.9	89		32	144
		Decachlorobiphen	1	20	13.7	68		32	175
		Tetrachloro-m-xyl	2	20	17.3	87		32	144
		Decachlorobiphen	2	20	13.5	68		32	175
Q2529-02	TP-80	Tetrachloro-m-xyl	1	20	18.7	94		32	144
		Decachlorobiphen	1	20	15.5	78		32	175
		Tetrachloro-m-xyl	2	20	18.3	91		32	144
		Decachlorobiphen	2	20	15.6	78		32	175
Q2529-03	TP-79	Tetrachloro-m-xyl	1	20	19.0	95		32	144
		Decachlorobiphen	1	20	16.1	81		32	175
		Tetrachloro-m-xyl	2	20	18.7	93		32	144
		Decachlorobiphen	2	20	16.1	81		32	175
Q2529-04	TP-95	Tetrachloro-m-xyl	1	20	18.7	93		32	144
		Decachlorobiphen	1	20	12.8	64		32	175
		Tetrachloro-m-xyl	2	20	18.4	92		32	144
		Decachlorobiphen	2	20	12.8	64		32	175
Q2529-05	TP-98	Tetrachloro-m-xyl	1	20	21.5	108		32	144
		Decachlorobiphen	1	20	17.1	86		32	175
		Tetrachloro-m-xyl	2	20	21.0	105		32	144
		Decachlorobiphen	2	20	16.9	84		32	175
Q2529-06	TP-102	Tetrachloro-m-xyl	1	20	19.4	97		32	144
		Decachlorobiphen	1	20	13.8	69		32	175
		Tetrachloro-m-xyl	2	20	18.8	94		32	144
		Decachlorobiphen	2	20	16.0	80		32	175
Q2529-07	TP-101	Tetrachloro-m-xyl	1	20	19.7	99		32	144
		Decachlorobiphen	1	20	13.8	69		32	175
		Tetrachloro-m-xyl	2	20	18.9	95		32	144
		Decachlorobiphen	2	20	15.4	77		32	175
I.BLK-PO112154.D	PIBLK-PO112154.D	Tetrachloro-m-xyl	1	20	20.1	100		60	140
		Decachlorobiphen	1	20	20.6	103		60	140
		Tetrachloro-m-xyl	2	20	19.6	98		60	140
		Decachlorobiphen	2	20	20.1	101		60	140
Q2529-08	TP-89	Tetrachloro-m-xyl	1	20	17.0	85		32	144

Surrogate Summary

SDG No.: Q2529

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%)	
								Low	High
Q2529-08	TP-89	Decachlorobiphen	1	20	16.2	81		32	175
		Tetrachloro-m-xyl	2	20	16.6	83		32	144
Q2529-09	TP-33	Decachlorobiphen	2	20	16.1	81		32	175
		Tetrachloro-m-xyl	1	20	18.5	92		32	144
		Decachlorobiphen	1	20	19.2	96		32	175
		Tetrachloro-m-xyl	2	20	17.9	89		32	144
		Decachlorobiphen	2	20	19.0	95		32	175
		Tetrachloro-m-xyl	1	20	18.7	94		32	144
Q2529-10	TP-30	Decachlorobiphen	1	20	19.0	95		32	175
		Tetrachloro-m-xyl	2	20	18.2	91		32	144
		Decachlorobiphen	2	20	18.6	93		32	175
		Tetrachloro-m-xyl	1	20	22.1	110		60	140
I.BLK-PO112169.D	PIBLK-PO112169.D	Decachlorobiphen	1	20	20.3	102		60	140
		Tetrachloro-m-xyl	2	20	21.3	106		60	140
		Decachlorobiphen	2	20	20.2	101		60	140
		Tetrachloro-m-xyl	1	20	16.2	81		60	140
I.BLK-PP073553.D	PIBLK-PP073553.D	Decachlorobiphen	1	20	17.3	87		60	140
		Tetrachloro-m-xyl	2	20	16.2	81		60	140
		Decachlorobiphen	2	20	17.1	85		60	140
		Tetrachloro-m-xyl	1	20	18.3	92		60	140
I.BLK-PP073644.D	PIBLK-PP073644.D	Decachlorobiphen	1	20	17.7	89		60	140
		Tetrachloro-m-xyl	2	20	18.5	93		60	140
		Decachlorobiphen	2	20	19.7	99		60	140
		Tetrachloro-m-xyl	1	20	18.1	91		32	144
PB168764BL	PB168764BL	Decachlorobiphen	1	20	18.1	90		32	175
		Tetrachloro-m-xyl	2	20	18.5	92		32	144
		Decachlorobiphen	2	20	19.8	99		32	175
		Tetrachloro-m-xyl	1	20	18.6	93		32	144
PB168764BS	PB168764BS	Decachlorobiphen	1	20	18.2	91		32	175
		Tetrachloro-m-xyl	2	20	17.4	87		32	144
		Decachlorobiphen	2	20	20.7	104		32	175
		Tetrachloro-m-xyl	1	20	21.5	107		32	144
Q2517-01MS	TP-14MS	Decachlorobiphen	1	20	20.6	103		32	175
		Tetrachloro-m-xyl	2	20	20.5	102		32	144
		Decachlorobiphen	2	20	22.6	113		32	175
		Tetrachloro-m-xyl	1	20	21.3	106		32	144
Q2517-01MSD	TP-14MSD	Decachlorobiphen	1	20	19.9	100		32	175
		Tetrachloro-m-xyl	2	20	20.7	104		32	144
		Decachlorobiphen	2	20	22.9	115		32	175
		Tetrachloro-m-xyl	1	20	19.1	96		60	140
I.BLK-PP073659.D	PIBLK-PP073659.D	Decachlorobiphen	1	20	19.0	95		60	140

Surrogate Summary

SDG No.: Q2529

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%)	
								Low	High
I.BLK-PP073659.D	PIBLK-PP073659.D	Tetrachloro-m-xyl	2	20	18.7	93		60	140
		Decachlorobiphen	2	20	20.9	104		60	140

A

B

C

D

E

F

G

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>8082A</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PP073648.D</u>

	Parameter	Spike	Sample		Units	Rec	Rec	RPD		Limits			
			Qual	RPD			Qual	Low	High	RPD			
Lab Sample ID:	Q2517-01MS (Column 1)	Client Sample ID:		TP-14MS									
	AR1016	189.4	0	172	ug/kg	91				55	146		
	AR1260	189.4	0	154	ug/kg	81				54	119		
Lab Sample ID:	Q2517-01MS (Column 2)	Client Sample ID:		TP-14MS									
	AR1016	189.4	0	180	ug/kg	95				55	146		
	AR1260	189.4	0	167	ug/kg	88				54	119		

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>8082A</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PP073649.D</u>

		Sample				Rec		RPD		Limits	
Parameter	Spike	Result	Result	Units	Rec	Qual	RPD	Qual	Low	High	RPD
Lab Sample ID:	Q2517-01MSD	Client Sample ID:		TP-14MSD							
(Column 1)											
AR1016	189.7	0	176	ug/kg	93		2		55	146	15
AR1260	189.7	0	155	ug/kg	82		1		54	119	15
Lab Sample ID:	Q2517-01MSD	Client Sample ID:		TP-14MSD							
(Column 2)											
AR1016	189.7	0	181	ug/kg	95		0		55	146	15
AR1260	189.7	0	168	ug/kg	89		1		54	119	15

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>8082A</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>PP073646.D</u>

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168764BS (Column 1)	AR1016	166.6	151	ug/kg	91				71	120	
	AR1260	166.6	139	ug/kg	83				65	130	
PB168764BS (Column 2)	AR1016	166.6	155	ug/kg	93				71	120	
	AR1260	166.6	151	ug/kg	91				65	130	

4C

PESTICIDE METHOD BLANK SUMMARY

Client ID

PB168764BL

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: PB168764BL

Lab File ID: PP073645.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 07/09/2025

Date Analyzed (1): 07/09/2025

Date Analyzed (2): 07/09/2025

Time Analyzed (1): 16:42

Time Analyzed (2): 16:42

Instrument ID (1): ECD_P

Instrument ID (2): ECD_P

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

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
TP-91	Q2529-01	PO112143.D	07/09/2025	07/09/2025
TP-80	Q2529-02	PO112144.D	07/09/2025	07/09/2025
TP-79	Q2529-03	PO112145.D	07/09/2025	07/09/2025
TP-95	Q2529-04	PO112146.D	07/09/2025	07/09/2025
TP-98	Q2529-05	PO112147.D	07/09/2025	07/09/2025
TP-102	Q2529-06	PO112148.D	07/09/2025	07/09/2025
TP-101	Q2529-07	PO112149.D	07/09/2025	07/09/2025
TP-89	Q2529-08	PO112155.D	07/09/2025	07/09/2025
TP-33	Q2529-09	PO112156.D	07/09/2025	07/09/2025
TP-30	Q2529-10	PO112157.D	07/09/2025	07/09/2025
PB168764BS	PB168764BS	PP073646.D	07/09/2025	07/09/2025
TP-14MS	Q2517-01MS	PP073648.D	07/09/2025	07/09/2025
TP-14MSD	Q2517-01MSD	PP073649.D	07/09/2025	07/09/2025

COMMENTS: _____



CALIBRATION SUMMARY

RETENTION TIMES OF INITIAL CALIBRATION

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Instrument ID:	<u>ECD_O</u>	Calibration Date(s):	<u>07/08/2025</u> <u>07/08/2025</u>
		Calibration Times:	<u>14:06</u> <u>22:16</u>

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

LAB FILE ID:	RT 1000 = <u>PO112088.D</u>	RT 750 = <u>PO112089.D</u>
	RT 500 = <u>PO112090.D</u>	RT 250 = <u>PO112091.D</u>
		RT 050 = <u>PO112092.D</u>

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM TO	
Aroclor-1016-1	(1)	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1016-2	(2)	4.78	4.78	4.78	4.78	4.78	4.78	4.68	4.88
Aroclor-1016-3	(3)	4.83	4.84	4.84	4.84	4.84	4.84	4.74	4.94
Aroclor-1016-4	(4)	4.95	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1016-5	(5)	5.21	5.21	5.21	5.21	5.21	5.21	5.11	5.31
Aroclor-1260-1	(1)	6.25	6.25	6.25	6.25	6.25	6.25	6.15	6.35
Aroclor-1260-2	(2)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
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)	7.31	7.31	7.31	7.31	7.31	7.31	7.21	7.41
Decachlorobiphenyl		8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1242-1	(1)	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1242-2	(2)	4.78	4.78	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		8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1248-1	(1)	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1248-2	(2)	5.00	5.00	5.00	5.00	5.00	5.00	4.90	5.10
Aroclor-1248-3	(3)	5.21	5.21	5.21	5.21	5.21	5.21	5.11	5.31
Aroclor-1248-4	(4)	5.57	5.56	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		8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1254-1	(1)	5.57	5.56	5.57	5.57	5.57	5.57	5.47	5.67
Aroclor-1254-2	(2)	5.72	5.71	5.72	5.71	5.71	5.72	5.62	5.82
Aroclor-1254-3	(3)	6.12	6.12	6.12	6.12	6.12	6.12	6.02	6.22
Aroclor-1254-4	(4)	6.35	6.35	6.35	6.35	6.35	6.35	6.25	6.45
Aroclor-1254-5	(5)	6.77	6.77	6.77	6.77	6.77	6.77	6.67	6.87
Decachlorobiphenyl		8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1268-1	(1)	7.59	7.59	7.59	7.59	7.59	7.59	7.49	7.69
Aroclor-1268-2	(2)	7.66	7.66	7.66	7.66	7.66	7.66	7.56	7.76
Aroclor-1268-3	(3)	7.86	7.86	7.86	7.86	7.86	7.86	7.76	7.96
Aroclor-1268-4	(4)	8.15	8.15	8.15	8.15	8.15	8.15	8.05	8.25
Aroclor-1268-5	(5)	8.45	8.44	8.45	8.45	8.45	8.45	8.35	8.55

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Tetrachloro-m-xylene	3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77

RETENTION TIMES OF INITIAL CALIBRATION

Lab Name:	Alliance	Contract:	CAMP02
Lab Code:	ACE	SDG NO.:	Q2529
Instrument ID:	ECD_O	Calibration Date(s):	07/08/2025 07/08/2025
		Calibration Times:	14:06 22:16

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

LAB FILE ID:	RT 1000 = PO112088.D	RT 750 = PO112089.D
RT 500 = PO112090.D	RT 250 = PO112091.D	RT 050 = PO112092.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM TO	
Aroclor-1016-1	(1)	4.74	4.74	4.76	4.74	4.74	4.75	4.65	4.85
Aroclor-1016-2	(2)	4.76	4.76	4.78	4.76	4.76	4.77	4.67	4.87
Aroclor-1016-3	(3)	4.94	4.94	4.95	4.94	4.94	4.94	4.84	5.04
Aroclor-1016-4	(4)	4.98	4.98	5.00	4.98	4.98	4.98	4.88	5.08
Aroclor-1016-5	(5)	5.19	5.19	5.21	5.19	5.19	5.20	5.10	5.30
Aroclor-1260-1	(1)	6.22	6.22	6.24	6.22	6.22	6.22	6.12	6.32
Aroclor-1260-2	(2)	6.41	6.41	6.43	6.41	6.41	6.41	6.31	6.51
Aroclor-1260-3	(3)	6.56	6.56	6.58	6.56	6.56	6.56	6.46	6.66
Aroclor-1260-4	(4)	7.03	7.03	7.05	7.03	7.03	7.03	6.93	7.13
Aroclor-1260-5	(5)	7.27	7.27	7.29	7.27	7.27	7.28	7.18	7.38
Decachlorobiphenyl		8.65	8.65	8.67	8.65	8.65	8.65	8.55	8.75
Tetrachloro-m-xylene		3.67	3.67	3.68	3.67	3.67	3.67	3.57	3.77
Aroclor-1242-1	(1)	4.74	4.74	4.74	4.74	4.74	4.74	4.64	4.84
Aroclor-1242-2	(2)	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Aroclor-1242-3	(3)	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Aroclor-1242-4	(4)	5.02	5.02	5.02	5.02	5.02	5.02	4.92	5.12
Aroclor-1242-5	(5)	5.54	5.54	5.54	5.54	5.54	5.54	5.44	5.64
Decachlorobiphenyl		8.65	8.65	8.65	8.65	8.65	8.65	8.55	8.75
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1248-1	(1)	4.74	4.74	4.74	4.74	4.74	4.74	4.64	4.84
Aroclor-1248-2	(2)	4.98	4.98	4.98	4.98	4.98	4.98	4.88	5.08
Aroclor-1248-3	(3)	5.02	5.02	5.02	5.02	5.02	5.02	4.92	5.12
Aroclor-1248-4	(4)	5.19	5.19	5.19	5.19	5.19	5.19	5.09	5.29
Aroclor-1248-5	(5)	5.58	5.58	5.58	5.58	5.58	5.58	5.48	5.68
Decachlorobiphenyl		8.65	8.65	8.65	8.65	8.65	8.65	8.55	8.75
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1254-1	(1)	5.54	5.54	5.54	5.54	5.54	5.54	5.44	5.64
Aroclor-1254-2	(2)	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Aroclor-1254-3	(3)	6.09	6.09	6.09	6.09	6.09	6.09	5.99	6.19
Aroclor-1254-4	(4)	6.32	6.32	6.32	6.32	6.32	6.32	6.22	6.42
Aroclor-1254-5	(5)	6.74	6.73	6.73	6.73	6.73	6.73	6.63	6.83
Decachlorobiphenyl		8.65	8.65	8.65	8.65	8.65	8.65	8.55	8.75
Tetrachloro-m-xylene		3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77
Aroclor-1268-1	(1)	7.55	7.55	7.55	7.55	7.55	7.55	7.45	7.65
Aroclor-1268-2	(2)	7.62	7.62	7.62	7.62	7.62	7.62	7.52	7.72
Aroclor-1268-3	(3)	7.82	7.82	7.82	7.82	7.82	7.82	7.72	7.92
Aroclor-1268-4	(4)	8.11	8.11	8.11	8.11	8.11	8.11	8.01	8.21
Aroclor-1268-5	(5)	8.40	8.40	8.40	8.40	8.40	8.40	8.30	8.50

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.65	8.65	8.65	8.65	8.65	8.65	8.55	8.75
Tetrachloro-m-xylene	3.67	3.67	3.67	3.67	3.67	3.67	3.57	3.77

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_O

Contract: CAMP02
SDG NO.: Q2529

Calibration Date(s): 07/08/2025 07/08/2025
Calibration Times: 14:06 22:16

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

LAB FILE ID:		CF 1000 = <u>PO112088.D</u>		CF 750 = <u>PO112089.D</u>			
CF 500 = <u>PO112090.D</u>		CF 250 = <u>PO112091.D</u>		CF 050 = <u>PO112092.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	360742355	353411084	358608078	351811628	276040300	340122689
Aroclor-1016-2	(2)	524757576	513734579	527286258	524874328	395805960	497291740
Aroclor-1016-3	(3)	332829086	325012079	334990372	341827996	283910480	323714003
Aroclor-1016-4	(4)	267114546	263557440	269039266	265481824	218804880	256799591
Aroclor-1016-5	(5)	281257689	272140703	280446704	285989380	248475020	273661899
Aroclor-1260-1	(1)	515263930	514045125	524528068	524922328	427435480	501238986
Aroclor-1260-2	(2)	755458656	751801572	763083688	740918324	679411120	738134672
Aroclor-1260-3	(3)	672764264	679771911	697132702	647584436	580156380	655481939
Aroclor-1260-4	(4)	428461498	442815881	457502760	461118372	386340060	435247714
Aroclor-1260-5	(5)	1355306152	1333629501	1317199750	1298892100	1007658700	1262537241
Decachlorobiphenyl		7091695750	7147123880	7182630500	7285420480	5478354000	6837044922
Tetrachloro-m-xylene		10813397260	10474815627	10513291260	10183518000	7488479400	9894700309
Aroclor-1242-1	(1)	285009923	305769684	302587940	302628584	252187260	289636678
Aroclor-1242-2	(2)	424985528	451558340	449561854	447967952	355524300	425919595
Aroclor-1242-3	(3)	267327438	285181779	287377204	288451804	240089600	273685565
Aroclor-1242-4	(4)	217524144	232173980	231748124	232379948	212764400	225318119
Aroclor-1242-5	(5)	218416651	232437525	224522496	231546684	151431360	211670943
Decachlorobiphenyl		6979969120	7147406973	7161879360	7131310800	5658336400	6815780531
Tetrachloro-m-xylene		10047633560	10752033107	10538404740	10524037960	8582543200	10088930513
Aroclor-1248-1	(1)	231871262	227298380	227625104	251373404	196330000	226899630
Aroclor-1248-2	(2)	312226784	305819339	307255800	349605332	266719220	308325295
Aroclor-1248-3	(3)	394903515	391569029	392918442	459601740	397606080	407319761
Aroclor-1248-4	(4)	577144829	572571723	575557162	615211088	545252760	577147512
Aroclor-1248-5	(5)	391149352	391468967	390698366	435680552	342525360	390304519
Decachlorobiphenyl		7164669710	7172590053	7258610400	7568481440	5849763800	7002823081
Tetrachloro-m-xylene		10966260810	10668995880	10533016680	11674212280	8664104600	10501318050
Aroclor-1254-1	(1)	596387386	615301855	615556214	631197528	617123200	615113237
Aroclor-1254-2	(2)	526620849	541456496	538329150	552782544	519240660	535685940
Aroclor-1254-3	(3)	832372124	848375105	844598876	861920200	810621920	839577645
Aroclor-1254-4	(4)	488348458	550588549	528046518	514011204	324098800	481018706
Aroclor-1254-5	(5)	772769124	785953607	791521408	805117428	714377600	773947833
Decachlorobiphenyl		7313218520	7363897040	7524909560	7619539480	6511414600	7266595840
Tetrachloro-m-xylene		10817495530	10970019693	10749863260	10915129200	9106609200	10511823377
Aroclor-1268-1	(1)	1933697823	1961714709	1933333182	1889919492	1468606580	1837454357

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	1621310763	1652283559	1624883286	1597201648	1292350600	1557605971	10
Aroclor-1268-3	(3)	1337748865	1359325231	1351894922	1337301304	1112111800	1299676424	8
Aroclor-1268-4	(4)	501678112	499381901	514040784	510400332	376538760	480407978	12
Aroclor-1268-5	(5)	3474681887	3495352783	3443761070	3349732680	2555042300	3263714144	12
Decachlorobiphenyl		13779789610	14010961973	13831208240	13686235720	10617540000	13185147109	11
Tetrachloro-m-xylene		10828416470	10960168653	10714217600	10397619080	7773509600	10134786281	13

A

B

C

D

E

F

G

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance

Lab Code: ACE

Instrument ID: ECD_O

Contract: CAMP02

SDG NO.: Q2529

Calibration Date(s): 07/08/2025 07/08/2025

Calibration Times: 14:06 22:16

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

LAB FILE ID:		CF 1000 = <u>PO112088.D</u>		CF 750 = <u>PO112089.D</u>			
CF 500 = <u>PO112090.D</u>		CF 250 = <u>PO112091.D</u>		CF 050 = <u>PO112092.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	224689947	221197589	229855740	235435032	202993580	222834378
Aroclor-1016-2	(2)	333676696	332964816	340716574	344871116	293258760	329097592
Aroclor-1016-3	(3)	173220389	172286476	177510406	175323720	150993180	169866834
Aroclor-1016-4	(4)	133548654	134722825	140696304	141544972	135624760	137227503
Aroclor-1016-5	(5)	172958737	175867975	183374190	179483264	150567480	172450329
Aroclor-1260-1	(1)	273966572	275587577	284396370	318959696	249900320	280562107
Aroclor-1260-2	(2)	339471861	339883185	345098816	366340024	309189580	339996693
Aroclor-1260-3	(3)	285079531	283131084	293155536	294803628	221760800	275586116
Aroclor-1260-4	(4)	190320237	194370733	203166394	219087436	196280140	200644988
Aroclor-1260-5	(5)	439428363	448516680	455912584	483251276	411533840	447728549
Decachlorobiphenyl		1708564380	1754251880	1790007560	1862375960	1502102800	1723460516
Tetrachloro-m-xylene		6849689250	6688775747	6823852720	6660365320	4832613200	6371059247
Aroclor-1242-1	(1)	180558203	194276476	196154442	205920884	192381760	193858353
Aroclor-1242-2	(2)	267145812	285888559	288791934	297310352	277625120	283352355
Aroclor-1242-3	(3)	139388587	149896708	150012144	154353128	134735720	145677257
Aroclor-1242-4	(4)	132647733	142511831	143624204	149839712	140580100	141840716
Aroclor-1242-5	(5)	169256952	182077477	187071418	199409696	170855060	181734121
Decachlorobiphenyl		1694985930	1765973813	1799728340	1866433600	1579982000	1741420737
Tetrachloro-m-xylene		6408694870	6872035667	6730718280	6766792760	5539281400	6463504595
Aroclor-1248-1	(1)	148373409	146783767	149637550	173598112	153448100	154368188
Aroclor-1248-2	(2)	200165378	198242231	203122858	230241332	197066700	205767700
Aroclor-1248-3	(3)	210851108	208337667	212783398	242780584	199239520	214798455
Aroclor-1248-4	(4)	249491134	246252407	253519016	297759984	246611360	258726780
Aroclor-1248-5	(5)	244390847	243395885	250986596	299503676	214470400	250549481
Decachlorobiphenyl		1741004980	1773180160	1834926600	1999524800	1593214800	1788370268
Tetrachloro-m-xylene		6922029440	6722968493	6653358760	7457216520	5595884000	6670291443
Aroclor-1254-1	(1)	358701312	372366800	376618238	404921504	393233780	381168327
Aroclor-1254-2	(2)	309319461	318506233	325963420	350344944	354921460	331811104
Aroclor-1254-3	(3)	457035033	473473401	470706516	496812748	512186320	482042804
Aroclor-1254-4	(4)	242702235	264458053	264466114	273730492	258116740	260694727
Aroclor-1254-5	(5)	340856875	348898753	356048528	374047448	361929480	356356217
Decachlorobiphenyl		1762037980	1801047667	1852268780	1914979680	1705564000	1807179621
Tetrachloro-m-xylene		6812677640	6946187027	6790686340	6873927640	5937916200	6672278969
Aroclor-1268-1	(1)	486556055	496283868	499490630	514433332	460511800	491455137

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	414074889	422901423	425132138	438633692	385189960	417186420	5
Aroclor-1268-3	(3)	309607188	317937561	322370012	335163612	296865480	316388771	5
Aroclor-1268-4	(4)	111375490	114260995	115590378	117536984	98796160	111512001	7
Aroclor-1268-5	(5)	736492551	750146037	748798464	755249104	641904560	726518143	7
Decachlorobiphenyl		3139191470	3230861547	3253774420	3306379000	2721463200	3130333927	8
Tetrachloro-m-xylene		6732535870	6829120120	6762174400	6573365120	5117275800	6402894262	11

A

B

C

D

E

F

G

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Instrument ID: ECD_O Date(s) Analyzed: 07/08/2025 07/08/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.88	3.78	3.98	116614000
		2	3.97	3.87	4.07	78840600
		3	4.05	3.95	4.15	269582000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.05	3.95	4.15	214668000
		2	4.54	4.44	4.64	113637000
		3	4.78	4.68	4.88	229008000
		4	4.96	4.86	5.06	114297000
		5	5.00	4.90	5.10	73400200
Aroclor-1262	500	1	6.81	6.71	6.91	1021690000
		2	7.31	7.21	7.41	1639370000
		3	7.59	7.49	7.69	641976000
		4	7.66	7.56	7.76	1071430000
		5	8.15	8.05	8.25	448140000

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Instrument ID: ECD_O Date(s) Analyzed: 07/08/2025 07/08/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.88	3.78	3.98	82295000
		2	3.96	3.86	4.06	59353600
		3	4.04	3.94	4.14	188777000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.04	3.94	4.14	150099000
		2	4.76	4.66	4.86	153086000
		3	4.94	4.84	5.04	75506000
		4	5.02	4.92	5.12	65988200
		5	5.19	5.09	5.29	74260000
Aroclor-1262	500	1	6.77	6.67	6.87	407320000
		2	7.27	7.17	7.37	512548000
		3	7.55	7.45	7.65	179524000
		4	7.62	7.52	7.72	290920000
		5	8.11	8.01	8.21	105784000

RETENTION TIMES OF INITIAL CALIBRATION

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Instrument ID:	<u>ECD_P</u>	Calibration Date(s):	<u>07/07/2025</u> <u>07/08/2025</u>
		Calibration Times:	<u>21:03</u> <u>04:24</u>

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

LAB FILE ID:	RT 1000 = <u>PP073554.D</u>	RT 750 = <u>PP073555.D</u>
RT 500 = <u>PP073556.D</u>	RT 250 = <u>PP073557.D</u>	RT 050 = <u>PP073558.D</u>

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW	
								FROM	TO
Aroclor-1016-1	(1)	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Aroclor-1016-2	(2)	5.66	5.66	5.66	5.66	5.66	5.66	5.56	5.76
Aroclor-1016-3	(3)	5.72	5.72	5.72	5.72	5.72	5.72	5.62	5.82
Aroclor-1016-4	(4)	5.82	5.82	5.82	5.82	5.82	5.82	5.72	5.92
Aroclor-1016-5	(5)	6.11	6.11	6.11	6.11	6.11	6.11	6.01	6.21
Aroclor-1260-1	(1)	7.23	7.23	7.23	7.23	7.23	7.23	7.13	7.33
Aroclor-1260-2	(2)	7.48	7.48	7.48	7.48	7.48	7.48	7.38	7.58
Aroclor-1260-3	(3)	7.84	7.84	7.84	7.84	7.84	7.84	7.74	7.94
Aroclor-1260-4	(4)	8.06	8.07	8.06	8.07	8.06	8.06	7.96	8.16
Aroclor-1260-5	(5)	8.38	8.38	8.38	8.39	8.38	8.38	8.28	8.48
Decachlorobiphenyl		10.18	10.18	10.18	10.18	10.17	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-1242-1	(1)	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Aroclor-1242-2	(2)	5.66	5.66	5.66	5.66	5.66	5.66	5.56	5.76
Aroclor-1242-3	(3)	5.72	5.72	5.72	5.72	5.72	5.72	5.62	5.82
Aroclor-1242-4	(4)	5.82	5.82	5.82	5.82	5.82	5.82	5.72	5.92
Aroclor-1242-5	(5)	6.55	6.55	6.55	6.55	6.55	6.55	6.45	6.65
Decachlorobiphenyl		10.18	10.18	10.17	10.18	10.17	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	5.63	5.64	5.54	5.74
Aroclor-1248-2	(2)	5.91	5.91	5.91	5.91	5.91	5.91	5.81	6.01
Aroclor-1248-3	(3)	6.11	6.11	6.11	6.11	6.11	6.11	6.01	6.21
Aroclor-1248-4	(4)	6.51	6.51	6.51	6.51	6.51	6.51	6.41	6.61
Aroclor-1248-5	(5)	6.55	6.55	6.55	6.55	6.55	6.55	6.45	6.65
Decachlorobiphenyl		10.18	10.18	10.17	10.18	10.17	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	6.48	6.49	6.49	6.39	6.59
Aroclor-1254-2	(2)	6.70	6.70	6.70	6.70	6.70	6.70	6.60	6.80
Aroclor-1254-3	(3)	7.07	7.07	7.06	7.06	7.06	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)	7.76	7.76	7.76	7.76	7.76	7.76	7.66	7.86
Decachlorobiphenyl		10.18	10.18	10.17	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)	8.69	8.69	8.69	8.69	8.69	8.69	8.59	8.79
Aroclor-1268-2	(2)	8.78	8.79	8.79	8.78	8.79	8.79	8.69	8.89
Aroclor-1268-3	(3)	9.01	9.01	9.01	9.01	9.02	9.01	8.91	9.11
Aroclor-1268-4	(4)	9.43	9.43	9.43	9.43	9.43	9.43	9.33	9.53
Aroclor-1268-5	(5)	9.84	9.84	9.84	9.84	9.84	9.84	9.74	9.94

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.18	10.18	10.18	10.17	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

A

B

C

D

E

F

G

RETENTION TIMES OF INITIAL CALIBRATION

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Instrument ID:	<u>ECD_P</u>	Calibration Date(s):	<u>07/07/2025</u> <u>07/08/2025</u>
		Calibration Times:	<u>21:03</u> <u>04:24</u>

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

LAB FILE ID:	RT 1000 = <u>PP073554.D</u>	RT 750 = <u>PP073555.D</u>
RT 500 = <u>PP073556.D</u>	RT 250 = <u>PP073557.D</u>	RT 050 = <u>PP073558.D</u>

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW	
								FROM	TO
Aroclor-1016-1	(1)	4.86	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)	5.05	5.05	5.05	5.05	5.05	5.05	4.95	5.15
Aroclor-1016-4	(4)	5.10	5.10	5.09	5.10	5.09	5.09	4.99	5.19
Aroclor-1016-5	(5)	5.31	5.31	5.31	5.31	5.31	5.31	5.21	5.41
Aroclor-1260-1	(1)	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Aroclor-1260-2	(2)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1260-3	(3)	6.68	6.68	6.68	6.68	6.68	6.68	6.58	6.78
Aroclor-1260-4	(4)	7.15	7.15	7.15	7.15	7.15	7.15	7.05	7.25
Aroclor-1260-5	(5)	7.39	7.39	7.39	7.39	7.39	7.39	7.29	7.49
Decachlorobiphenyl		8.78	8.78	8.78	8.78	8.78	8.78	8.68	8.88
Tetrachloro-m-xylene		3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Aroclor-1242-1	(1)	4.86	4.86	4.86	4.86	4.86	4.86	4.76	4.96
Aroclor-1242-2	(2)	4.87	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Aroclor-1242-3	(3)	5.05	5.05	5.05	5.05	5.05	5.05	4.95	5.15
Aroclor-1242-4	(4)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1242-5	(5)	5.66	5.66	5.66	5.66	5.66	5.66	5.56	5.76
Decachlorobiphenyl		8.78	8.78	8.78	8.78	8.78	8.78	8.68	8.88
Tetrachloro-m-xylene		3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Aroclor-1248-1	(1)	4.86	4.86	4.86	4.86	4.86	4.86	4.76	4.96
Aroclor-1248-2	(2)	5.09	5.09	5.09	5.09	5.09	5.09	4.99	5.19
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	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Decachlorobiphenyl		8.78	8.78	8.78	8.78	8.78	8.78	8.68	8.88
Tetrachloro-m-xylene		3.78	3.78	3.78	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)	6.85	6.85	6.85	6.85	6.85	6.85	6.75	6.95
Decachlorobiphenyl		8.78	8.78	8.78	8.78	8.78	8.78	8.68	8.88
Tetrachloro-m-xylene		3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88
Aroclor-1268-1	(1)	7.67	7.67	7.67	7.67	7.67	7.67	7.57	7.77
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)	8.23	8.23	8.23	8.23	8.23	8.23	8.13	8.33
Aroclor-1268-5	(5)	8.53	8.53	8.53	8.53	8.53	8.53	8.43	8.63

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.78	8.78	8.78	8.78	8.78	8.78	8.68	8.88
Tetrachloro-m-xylene	3.78	3.78	3.78	3.78	3.78	3.78	3.68	3.88

A

B

C

D

E

F

G

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance

Lab Code: ACE

Instrument ID: ECD_P

Contract: CAMP02

SDG NO.: Q2529

Calibration Date(s): 07/07/2025 07/08/2025

Calibration Times: 21:03 04:24

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

LAB FILE ID:		CF 1000 = <u>PP073554.D</u>		CF 750 = <u>PP073555.D</u>			
CF 500 = <u>PP073556.D</u>		CF 250 = <u>PP073557.D</u>		CF 050 = <u>PP073558.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	42452248	45617859	47138872	50511676	51847220	47513575
Aroclor-1016-2	(2)	66518124	70141979	72048808	76716636	70648900	71214889
Aroclor-1016-3	(3)	39961628	42046196	44162638	46389840	45755080	43663076
Aroclor-1016-4	(4)	33606097	35475740	36592056	38460728	35593260	35945576
Aroclor-1016-5	(5)	30910810	31971305	32786356	34274032	26709560	31330413
Aroclor-1260-1	(1)	55735594	57789364	59663732	63324028	58293500	58961244
Aroclor-1260-2	(2)	82256765	86873544	90393892	97973444	121701660	95839861
Aroclor-1260-3	(3)	71122512	73727981	74691298	76804056	69007300	73070629
Aroclor-1260-4	(4)	63951646	66011447	66730410	69035472	60770420	65299879
Aroclor-1260-5	(5)	147606205	151816095	154896322	160840336	139104740	150852740
Decachlorobiphenyl		1075002490	1114272707	1146110620	1163852360	956024000	1091052435
Tetrachloro-m-xylene		1314627420	1370591720	1413189460	1469047800	1280173600	1369526000
Aroclor-1242-1	(1)	37824570	38531545	40764028	42347748	31473220	38188222
Aroclor-1242-2	(2)	59433539	58987884	63134254	65007836	52846680	59882039
Aroclor-1242-3	(3)	35307728	35832168	38067086	39311740	34585840	36620912
Aroclor-1242-4	(4)	29431539	30211543	31738592	32275500	37022940	32136023
Aroclor-1242-5	(5)	31742412	31628361	33353228	35089048	31871320	32736874
Decachlorobiphenyl		1095703140	1117596867	1144519060	1154694600	992628000	1101028333
Tetrachloro-m-xylene		1336424670	1349665200	1427212360	1438929280	1262569400	1362960182
Aroclor-1248-1	(1)	29290065	30340729	31459936	34321104	28940820	30870531
Aroclor-1248-2	(2)	37625323	39736876	40535254	44074952	37644360	39923353
Aroclor-1248-3	(3)	43927993	45846956	46075290	48569104	37628800	44409629
Aroclor-1248-4	(4)	53376796	55925132	57147446	59774616	49178580	55080514
Aroclor-1248-5	(5)	51803368	53704276	55758942	57942584	49744040	53790642
Decachlorobiphenyl		1098016930	1133084880	1145143920	1172914800	889666400	1087765386
Tetrachloro-m-xylene		1321954420	1371326347	1415433040	1456874560	1240770200	1361271713
Aroclor-1254-1	(1)	50900598	53159759	55209204	57116384	51561700	53589529
Aroclor-1254-2	(2)	77237012	80519573	82538946	86348708	89800160	83288880
Aroclor-1254-3	(3)	83677544	86010903	88492372	92072040	91405580	88331688
Aroclor-1254-4	(4)	74438148	76222969	79592040	81854844	81227180	78667036
Aroclor-1254-5	(5)	71888659	74572743	74620102	76347748	70969780	73679806
Decachlorobiphenyl		1107439250	1132832533	1145288580	1145076280	1133429800	1132813289
Tetrachloro-m-xylene		1351624000	1395660893	1401155480	1465561640	1387618000	1400324003
Aroclor-1268-1	(1)	220572869	225132533	228083942	237689468	204639620	223223686

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	188785361	192061012	194228718	202923360	174527620	190505214	5
Aroclor-1268-3	(3)	161320167	164379476	166708106	175220108	160250740	165575719	3
Aroclor-1268-4	(4)	68937885	69804631	69558114	75087068	64331720	69543884	5
Aroclor-1268-5	(5)	477643268	472782711	485154758	497337016	371889540	460961459	10
Decachlorobiphenyl		1977874930	2021254947	2057047680	2189262080	1794844800	2008056887	7
Tetrachloro-m-xylene		1351774000	1390310400	1415817780	1495349000	1314096000	1393469436	5

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_P

Contract: CAMP02
SDG NO.: Q2529

Calibration Date(s): 07/07/2025 07/08/2025
Calibration Times: 21:03 04:24

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

LAB FILE ID:								
CF 1000 =		PP073554.D		CF 750 =		PP073555.D		
CF 500 =		PP073556.D		CF 250 =		PP073557.D		
CF 050 =		PP073558.D		CF 050 =		PP073558.D		
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	63548895	66956692	68520980	73175628	68671440	68174727	5
Aroclor-1016-2	(2)	95987811	99810097	102589296	109872788	101161940	101884386	5
Aroclor-1016-3	(3)	50406684	53112144	54849034	57930668	54233060	54106318	5
Aroclor-1016-4	(4)	39688708	42104989	43896956	47040184	46673360	43880839	7
Aroclor-1016-5	(5)	50298801	53487816	55660288	59272232	54193420	54582511	6
Aroclor-1260-1	(1)	89335231	94510516	99471332	104207304	100277120	97560301	6
Aroclor-1260-2	(2)	113000947	118559808	124003550	129850992	128772620	122837583	5
Aroclor-1260-3	(3)	102918015	108414332	112293296	117668340	106025080	109463813	5
Aroclor-1260-4	(4)	82942909	90440599	92349274	96325208	84984160	89408430	6
Aroclor-1260-5	(5)	218347404	234684793	232225124	233707816	204717920	224736611	5
Decachlorobiphenyl		1288482360	1338938240	1324505420	1466524480	1197294400	1323148980	7
Tetrachloro-m-xylene		1774031450	1893159427	1873404460	1944042160	1726825000	1842292499	5
Aroclor-1242-1	(1)	53636877	56644489	60339480	62120840	56082120	57764761	6
Aroclor-1242-2	(2)	81745742	82323689	88927402	91756504	87517600	86454187	5
Aroclor-1242-3	(3)	43191003	44194741	47579930	48843488	45924140	45946660	5
Aroclor-1242-4	(4)	40719317	41867060	45117014	46860680	46752460	44263306	6
Aroclor-1242-5	(5)	53173633	53609452	57067394	58584716	53777140	55242467	4
Decachlorobiphenyl		1306642480	1369985587	1353011840	1407476720	1194819200	1326387165	6
Tetrachloro-m-xylene		1787240920	1786937067	1893455580	1997751320	1666197200	1826316417	7
Aroclor-1248-1	(1)	41993150	43590469	45185544	49843992	43861300	44894891	6
Aroclor-1248-2	(2)	55737799	58586344	61889020	66706936	64762540	61536528	7
Aroclor-1248-3	(3)	58429721	61323012	64407590	69469512	66692820	64064531	6
Aroclor-1248-4	(4)	68661033	72026459	75308372	81734520	79156680	75377413	7
Aroclor-1248-5	(5)	69725277	73210425	76423314	81696724	71898780	74590904	6
Decachlorobiphenyl		1298382400	1392805453	1360355620	1440840840	1158845800	1330246023	8
Tetrachloro-m-xylene		1855486030	1865559853	1910416600	1967065360	1674658000	1854637169	6
Aroclor-1254-1	(1)	105364555	111697468	112323806	121711620	129052960	116030082	8
Aroclor-1254-2	(2)	90612135	96205700	96079760	105129084	115091100	100623556	9
Aroclor-1254-3	(3)	142515413	152219476	152099148	162118636	163279600	154446455	5
Aroclor-1254-4	(4)	86996505	93901768	94351020	100389560	97157080	94559187	5
Aroclor-1254-5	(5)	123596587	131044949	130737444	141046724	140798600	133444861	5
Decachlorobiphenyl		1348192280	1398430560	1372338640	1507697520	1377457800	1400823360	4
Tetrachloro-m-xylene		1809940380	1949806187	1892015400	1932532480	1944382600	1905735409	3
Aroclor-1268-1	(1)	290584667	307587391	307795276	323603296	307313580	307376842	4

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	254148086	267727805	267575410	282961968	256026000	265687854	4
Aroclor-1268-3	(3)	211648098	225837245	227309934	242217372	220889640	225580458	5
Aroclor-1268-4	(4)	89640321	95098047	95218176	99881904	85000720	92967834	6
Aroclor-1268-5	(5)	595257746	637650785	622434144	650778188	576631820	616550537	5
Decachlorobiphenyl		2396229270	2556860227	2535017940	2683507840	2355689000	2505460855	5
Tetrachloro-m-xylene		1866286350	1953909840	1937791560	2021719520	1790813600	1914104174	5

A

B

C

D

E

F

G

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Instrument ID: ECD_P Date(s) Analyzed: 07/07/2025 07/08/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	4.69	4.59	4.79	17866400
		2	4.78	4.68	4.88	13504500
		3	4.85	4.75	4.95	41604800
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.85	4.75	4.95	32650800
		2	5.37	5.27	5.47	16254700
		3	5.66	5.56	5.76	32993400
		4	5.82	5.72	5.92	16445200
		5	5.91	5.81	6.01	10570400
Aroclor-1262	500	1	8.07	7.97	8.17	87027200
		2	8.38	8.28	8.48	198028000
		3	8.70	8.60	8.80	125725000
		4	8.78	8.68	8.88	93262800
		5	9.43	9.33	9.53	63389400

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Instrument ID: ECD_P Date(s) Analyzed: 07/07/2025 07/08/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.99	3.89	4.09	27045000
		2	4.08	3.98	4.18	20360400
		3	4.15	4.05	4.25	61448600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.15	4.05	4.25	46614400
		2	4.88	4.78	4.98	47659800
		3	5.05	4.95	5.15	25029000
		4	5.14	5.04	5.24	21656200
		5	5.31	5.21	5.41	22563400
Aroclor-1262	500	1	6.89	6.79	6.99	147692000
		2	7.15	7.05	7.25	127829000
		3	7.67	7.57	7.77	114019000
		4	7.74	7.64	7.84	184049000
		5	8.23	8.13	8.33	84435600

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
Continuing Calib Date: 07/09/2025 **Initial Calibration Date(s):** 07/08/2025 07/08/2025
Continuing Calib Time: 15:32 **Initial Calibration Time(s):** 14:06 22:16

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.76	4.76	4.66	4.86	0.00
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	5.21	5.11	5.31	0.00
Aroclor-1260-1	(1)	6.25	6.25	6.15	6.35	0.00
Aroclor-1260-2	(2)	6.44	6.44	6.34	6.54	0.00
Aroclor-1260-3	(3)	6.81	6.81	6.71	6.91	0.01
Aroclor-1260-4	(4)	7.06	7.07	6.97	7.17	0.01
Aroclor-1260-5	(5)	7.31	7.31	7.21	7.41	0.00
Tetrachloro-m-xylene		3.67	3.67	3.57	3.77	0.00
Decachlorobiphenyl		8.70	8.70	8.60	8.80	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Continuing Calib Date: 07/09/2025

Initial Calibration Date(s): 07/08/2025

07/08/2025

Continuing Calib Time: 15:32

Initial Calibration Time(s): 14:06

22:16

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.74	4.76	4.66	4.86	0.02
Aroclor-1016-2	(2)	4.76	4.78	4.68	4.88	0.02
Aroclor-1016-3	(3)	4.94	4.95	4.85	5.05	0.01
Aroclor-1016-4	(4)	4.98	5.00	4.90	5.10	0.02
Aroclor-1016-5	(5)	5.19	5.21	5.11	5.31	0.02
Aroclor-1260-1	(1)	6.22	6.24	6.14	6.34	0.02
Aroclor-1260-2	(2)	6.41	6.43	6.33	6.53	0.02
Aroclor-1260-3	(3)	6.56	6.58	6.48	6.68	0.02
Aroclor-1260-4	(4)	7.03	7.05	6.95	7.15	0.02
Aroclor-1260-5	(5)	7.27	7.29	7.19	7.39	0.02
Tetrachloro-m-xylene		3.67	3.68	3.58	3.78	0.01
Decachlorobiphenyl		8.65	8.67	8.57	8.77	0.02

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/08/2025 07/08/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/09/2025
Lab Sample No.: AR1660CCC500 **Data File :** PO112135.D **Time Analyzed:** 15:32

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.760	4.661	4.861	547.310	500.000	9.5
Aroclor-1016-2	4.778	4.680	4.880	559.850	500.000	12.0
Aroclor-1016-3	4.835	4.736	4.936	541.660	500.000	8.3
Aroclor-1016-4	4.956	4.856	5.056	551.770	500.000	10.4
Aroclor-1016-5	5.213	5.113	5.313	559.420	500.000	11.9
Aroclor-1260-1	6.250	6.151	6.351	494.590	500.000	-1.1
Aroclor-1260-2	6.439	6.341	6.541	490.920	500.000	-1.8
Aroclor-1260-3	6.805	6.707	6.907	501.480	500.000	0.3
Aroclor-1260-4	7.064	6.967	7.167	509.890	500.000	2.0
Aroclor-1260-5	7.307	7.209	7.409	493.430	500.000	-1.3
Decachlorobiphenyl	8.701	8.603	8.803	49.070	50.000	-1.9
Tetrachloro-m-xylene	3.673	3.573	3.773	58.210	50.000	16.4

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/08/2025 07/08/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/09/2025
Lab Sample No.: AR1660CCC500 **Data File :** PO112135.D **Time Analyzed:** 15:32

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.741	4.661	4.861	545.850	500.000	9.2
Aroclor-1016-2	4.760	4.679	4.879	528.330	500.000	5.7
Aroclor-1016-3	4.936	4.854	5.054	533.880	500.000	6.8
Aroclor-1016-4	4.978	4.897	5.097	521.470	500.000	4.3
Aroclor-1016-5	5.190	5.109	5.309	565.670	500.000	13.1
Aroclor-1260-1	6.219	6.138	6.338	488.890	500.000	-2.2
Aroclor-1260-2	6.407	6.326	6.526	494.720	500.000	-1.1
Aroclor-1260-3	6.559	6.478	6.678	504.050	500.000	0.8
Aroclor-1260-4	7.029	6.948	7.148	478.790	500.000	-4.2
Aroclor-1260-5	7.271	7.190	7.390	479.190	500.000	-4.2
Decachlorobiphenyl	8.648	8.568	8.768	48.120	50.000	-3.8
Tetrachloro-m-xylene	3.666	3.584	3.784	56.670	50.000	13.3

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/09/2025</u>	Initial Calibration Date(s):	<u>07/08/2025</u> <u>07/08/2025</u>
Continuing Calib Time:	<u>21:13</u>	Initial Calibration Time(s):	<u>14:06</u> <u>22:16</u>

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	4.76	4.66	4.86	0.00
Aroclor-1016-2	(2)	4.78	4.78	4.68	4.88	0.00
Aroclor-1016-3	(3)	4.83	4.84	4.74	4.94	0.01
Aroclor-1016-4	(4)	4.95	4.96	4.86	5.06	0.01
Aroclor-1016-5	(5)	5.21	5.21	5.11	5.31	0.00
Aroclor-1260-1	(1)	6.25	6.25	6.15	6.35	0.00
Aroclor-1260-2	(2)	6.44	6.44	6.34	6.54	0.00
Aroclor-1260-3	(3)	6.80	6.81	6.71	6.91	0.01
Aroclor-1260-4	(4)	7.06	7.07	6.97	7.17	0.01
Aroclor-1260-5	(5)	7.31	7.31	7.21	7.41	0.00
Tetrachloro-m-xylene		3.67	3.67	3.57	3.77	0.00
Decachlorobiphenyl		8.70	8.70	8.60	8.80	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Continuing Calib Date: 07/09/2025

Initial Calibration Date(s): 07/08/2025

07/08/2025

Continuing Calib Time: 21:13

Initial Calibration Time(s): 14:06

22:16

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.74	4.76	4.66	4.86	0.02
Aroclor-1016-2	(2)	4.76	4.78	4.68	4.88	0.02
Aroclor-1016-3	(3)	4.94	4.95	4.85	5.05	0.02
Aroclor-1016-4	(4)	4.98	5.00	4.90	5.10	0.02
Aroclor-1016-5	(5)	5.19	5.21	5.11	5.31	0.02
Aroclor-1260-1	(1)	6.22	6.24	6.14	6.34	0.02
Aroclor-1260-2	(2)	6.41	6.43	6.33	6.53	0.02
Aroclor-1260-3	(3)	6.56	6.58	6.48	6.68	0.02
Aroclor-1260-4	(4)	7.03	7.05	6.95	7.15	0.02
Aroclor-1260-5	(5)	7.27	7.29	7.19	7.39	0.02
Tetrachloro-m-xylene		3.67	3.68	3.58	3.78	0.01
Decachlorobiphenyl		8.65	8.67	8.57	8.77	0.02

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/08/2025 07/08/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/09/2025
Lab Sample No.: AR1660CCC500 **Data File :** PO112150.D **Time Analyzed:** 21:13

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.758	4.661	4.861	468.690	500.000	-6.3
Aroclor-1016-2	4.777	4.680	4.880	470.810	500.000	-5.8
Aroclor-1016-3	4.833	4.736	4.936	465.050	500.000	-7.0
Aroclor-1016-4	4.953	4.856	5.056	477.440	500.000	-4.5
Aroclor-1016-5	5.209	5.113	5.313	456.730	500.000	-8.7
Aroclor-1260-1	6.248	6.151	6.351	481.940	500.000	-3.6
Aroclor-1260-2	6.437	6.341	6.541	479.060	500.000	-4.2
Aroclor-1260-3	6.804	6.707	6.907	443.870	500.000	-11.2
Aroclor-1260-4	7.063	6.967	7.167	485.650	500.000	-2.9
Aroclor-1260-5	7.306	7.209	7.409	480.500	500.000	-3.9
Decachlorobiphenyl	8.699	8.603	8.803	49.530	50.000	-0.9
Tetrachloro-m-xylene	3.671	3.573	3.773	47.450	50.000	-5.1

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/08/2025 07/08/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/09/2025
Lab Sample No.: AR1660CCC500 **Data File :** PO112150.D **Time Analyzed:** 21:13

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.741	4.661	4.861	443.040	500.000	-11.4
Aroclor-1016-2	4.759	4.679	4.879	423.560	500.000	-15.3
Aroclor-1016-3	4.935	4.854	5.054	450.350	500.000	-9.9
Aroclor-1016-4	4.977	4.897	5.097	437.130	500.000	-12.6
Aroclor-1016-5	5.189	5.109	5.309	499.940	500.000	0.0
Aroclor-1260-1	6.218	6.138	6.338	453.540	500.000	-9.3
Aroclor-1260-2	6.407	6.326	6.526	463.840	500.000	-7.2
Aroclor-1260-3	6.558	6.478	6.678	467.640	500.000	-6.5
Aroclor-1260-4	7.028	6.948	7.148	454.270	500.000	-9.1
Aroclor-1260-5	7.270	7.190	7.390	463.030	500.000	-7.4
Decachlorobiphenyl	8.647	8.568	8.768	47.890	50.000	-4.2
Tetrachloro-m-xylene	3.666	3.584	3.784	45.880	50.000	-8.2

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/10/2025</u>	Initial Calibration Date(s):	<u>07/08/2025</u> <u>07/08/2025</u>
Continuing Calib Time:	<u>03:11</u>	Initial Calibration Time(s):	<u>14:06</u> <u>22:16</u>

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.76	4.76	4.66	4.86	0.00
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	0.01
Aroclor-1016-5	(5)	5.21	5.21	5.11	5.31	0.00
Aroclor-1260-1	(1)	6.25	6.25	6.15	6.35	0.00
Aroclor-1260-2	(2)	6.44	6.44	6.34	6.54	0.00
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	7.31	7.21	7.41	0.00
Tetrachloro-m-xylene		3.67	3.67	3.57	3.77	0.00
Decachlorobiphenyl		8.70	8.70	8.60	8.80	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
Continuing Calib Date: 07/10/2025 **Initial Calibration Date(s):** 07/08/2025 07/08/2025
Continuing Calib Time: 03:11 **Initial Calibration Time(s):** 14:06 22:16

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.74	4.76	4.66	4.86	0.02
Aroclor-1016-2	(2)	4.76	4.78	4.68	4.88	0.02
Aroclor-1016-3	(3)	4.94	4.95	4.85	5.05	0.02
Aroclor-1016-4	(4)	4.98	5.00	4.90	5.10	0.02
Aroclor-1016-5	(5)	5.19	5.21	5.11	5.31	0.02
Aroclor-1260-1	(1)	6.22	6.24	6.14	6.34	0.02
Aroclor-1260-2	(2)	6.41	6.43	6.33	6.53	0.02
Aroclor-1260-3	(3)	6.56	6.58	6.48	6.68	0.02
Aroclor-1260-4	(4)	7.03	7.05	6.95	7.15	0.02
Aroclor-1260-5	(5)	7.27	7.29	7.19	7.39	0.02
Tetrachloro-m-xylene		3.67	3.68	3.58	3.78	0.01
Decachlorobiphenyl		8.65	8.67	8.57	8.77	0.02

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/08/2025 07/08/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/10/2025
Lab Sample No.: AR1660CCC500 **Data File :** PO112165.D **Time Analyzed:** 03:11

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.760	4.661	4.861	481.070	500.000	-3.8
Aroclor-1016-2	4.779	4.680	4.880	492.650	500.000	-1.5
Aroclor-1016-3	4.836	4.736	4.936	477.450	500.000	-4.5
Aroclor-1016-4	4.955	4.856	5.056	483.930	500.000	-3.2
Aroclor-1016-5	5.212	5.113	5.313	451.060	500.000	-9.8
Aroclor-1260-1	6.250	6.151	6.351	437.900	500.000	-12.4
Aroclor-1260-2	6.440	6.341	6.541	447.270	500.000	-10.5
Aroclor-1260-3	6.806	6.707	6.907	442.910	500.000	-11.4
Aroclor-1260-4	7.067	6.967	7.167	465.480	500.000	-6.9
Aroclor-1260-5	7.309	7.209	7.409	447.400	500.000	-10.5
Decachlorobiphenyl	8.703	8.603	8.803	46.070	50.000	-7.9
Tetrachloro-m-xylene	3.673	3.573	3.773	50.290	50.000	0.6

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/08/2025 07/08/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/10/2025
Lab Sample No.: AR1660CCC500 **Data File :** PO112165.D **Time Analyzed:** 03:11

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.741	4.661	4.861	479.680	500.000	-4.1
Aroclor-1016-2	4.761	4.679	4.879	429.670	500.000	-14.1
Aroclor-1016-3	4.935	4.854	5.054	457.340	500.000	-8.5
Aroclor-1016-4	4.978	4.897	5.097	436.680	500.000	-12.7
Aroclor-1016-5	5.191	5.109	5.309	523.480	500.000	4.7
Aroclor-1260-1	6.220	6.138	6.338	450.870	500.000	-9.8
Aroclor-1260-2	6.408	6.326	6.526	451.460	500.000	-9.7
Aroclor-1260-3	6.559	6.478	6.678	455.420	500.000	-8.9
Aroclor-1260-4	7.029	6.948	7.148	443.960	500.000	-11.2
Aroclor-1260-5	7.271	7.190	7.390	446.370	500.000	-10.7
Decachlorobiphenyl	8.649	8.568	8.768	46.990	50.000	-6.0
Tetrachloro-m-xylene	3.666	3.584	3.784	47.770	50.000	-4.5

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/09/2025</u>	Initial Calibration Date(s):	<u>07/07/2025</u> <u>07/08/2025</u>
Continuing Calib Time:	<u>15:20</u>	Initial Calibration Time(s):	<u>21:03</u> <u>04:24</u>

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	5.64	5.64	5.54	5.74	0.00
Aroclor-1016-2	(2)	5.66	5.66	5.56	5.76	0.00
Aroclor-1016-3	(3)	5.72	5.72	5.62	5.82	0.00
Aroclor-1016-4	(4)	5.82	5.82	5.72	5.92	0.00
Aroclor-1016-5	(5)	6.11	6.11	6.01	6.21	0.00
Aroclor-1260-1	(1)	7.23	7.23	7.13	7.33	0.00
Aroclor-1260-2	(2)	7.48	7.48	7.38	7.58	0.00
Aroclor-1260-3	(3)	7.84	7.84	7.74	7.94	0.00
Aroclor-1260-4	(4)	8.07	8.06	7.96	8.16	0.00
Aroclor-1260-5	(5)	8.38	8.38	8.28	8.48	0.00
Tetrachloro-m-xylene		4.49	4.49	4.39	4.59	0.00
Decachlorobiphenyl		10.18	10.18	10.08	10.28	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/09/2025</u>	Initial Calibration Date(s):	<u>07/07/2025</u> <u>07/08/2025</u>
Continuing Calib Time:	<u>15:20</u>	Initial Calibration Time(s):	<u>21:03</u> <u>04:24</u>

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
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)	5.05	5.05	4.95	5.15	0.00
Aroclor-1016-4	(4)	5.09	5.09	4.99	5.19	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	6.68	6.58	6.78	0.00
Aroclor-1260-4	(4)	7.15	7.15	7.05	7.25	0.00
Aroclor-1260-5	(5)	7.39	7.39	7.29	7.49	0.00
Tetrachloro-m-xylene		3.78	3.78	3.68	3.88	0.00
Decachlorobiphenyl		8.78	8.78	8.68	8.88	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/07/2025 07/07/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/09/2025
Lab Sample No.: AR1660CCC500 **Data File :** PP073640.D **Time Analyzed:** 15:20

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	5.639	5.539	5.739	424.810	500.000	-15.0
Aroclor-1016-2	5.660	5.560	5.760	436.050	500.000	-12.8
Aroclor-1016-3	5.722	5.622	5.822	438.140	500.000	-12.4
Aroclor-1016-4	5.820	5.720	5.920	445.700	500.000	-10.9
Aroclor-1016-5	6.112	6.012	6.212	452.970	500.000	-9.4
Aroclor-1260-1	7.229	7.129	7.329	416.990	500.000	-16.6
Aroclor-1260-2	7.481	7.383	7.583	367.360	500.000	-26.5
Aroclor-1260-3	7.840	7.740	7.940	402.830	500.000	-19.4
Aroclor-1260-4	8.065	7.964	8.164	408.010	500.000	-18.4
Aroclor-1260-5	8.382	8.283	8.483	414.130	500.000	-17.2
Decachlorobiphenyl	10.179	10.076	10.276	42.740	50.000	-14.5
Tetrachloro-m-xylene	4.488	4.388	4.588	45.900	50.000	-8.2

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/07/2025 07/07/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/09/2025
Lab Sample No.: AR1660CCC500 **Data File :** PP073640.D **Time Analyzed:** 15:20

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.858	4.758	4.958	457.520	500.000	-8.5
Aroclor-1016-2	4.876	4.775	4.975	453.260	500.000	-9.3
Aroclor-1016-3	5.053	4.951	5.151	458.820	500.000	-8.2
Aroclor-1016-4	5.094	4.993	5.193	454.810	500.000	-9.0
Aroclor-1016-5	5.308	5.207	5.407	472.620	500.000	-5.5
Aroclor-1260-1	6.338	6.237	6.437	443.640	500.000	-11.3
Aroclor-1260-2	6.526	6.425	6.625	435.900	500.000	-12.8
Aroclor-1260-3	6.678	6.577	6.777	428.880	500.000	-14.2
Aroclor-1260-4	7.148	7.046	7.246	447.130	500.000	-10.6
Aroclor-1260-5	7.391	7.289	7.489	432.670	500.000	-13.5
Decachlorobiphenyl	8.782	8.680	8.880	47.820	50.000	-4.4
Tetrachloro-m-xylene	3.781	3.678	3.878	46.430	50.000	-7.1

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/09/2025</u>	Initial Calibration Date(s):	<u>07/07/2025</u> <u>07/08/2025</u>
Continuing Calib Time:	<u>20:17</u>	Initial Calibration Time(s):	<u>21:03</u> <u>04:24</u>

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	5.64	5.64	5.54	5.74	0.00
Aroclor-1016-2	(2)	5.66	5.66	5.56	5.76	0.00
Aroclor-1016-3	(3)	5.72	5.72	5.62	5.82	0.00
Aroclor-1016-4	(4)	5.82	5.82	5.72	5.92	0.00
Aroclor-1016-5	(5)	6.11	6.11	6.01	6.21	0.00
Aroclor-1260-1	(1)	7.23	7.23	7.13	7.33	0.00
Aroclor-1260-2	(2)	7.48	7.48	7.38	7.58	0.00
Aroclor-1260-3	(3)	7.84	7.84	7.74	7.94	0.00
Aroclor-1260-4	(4)	8.06	8.06	7.96	8.16	0.00
Aroclor-1260-5	(5)	8.38	8.38	8.28	8.48	0.00
Tetrachloro-m-xylene		4.49	4.49	4.39	4.59	0.00
Decachlorobiphenyl		10.18	10.18	10.08	10.28	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/09/2025</u>	Initial Calibration Date(s):	<u>07/07/2025</u> <u>07/08/2025</u>
Continuing Calib Time:	<u>20:17</u>	Initial Calibration Time(s):	<u>21:03</u> <u>04:24</u>

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)	5.05	5.05	4.95	5.15	0.00
Aroclor-1016-4	(4)	5.09	5.09	4.99	5.19	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	6.68	6.58	6.78	0.00
Aroclor-1260-4	(4)	7.15	7.15	7.05	7.25	0.00
Aroclor-1260-5	(5)	7.39	7.39	7.29	7.49	0.00
Tetrachloro-m-xylene		3.78	3.78	3.68	3.88	0.00
Decachlorobiphenyl		8.78	8.78	8.68	8.88	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/07/2025 07/07/2025

Client Sample No.: CCAL05 **Date Analyzed:** 07/09/2025
Lab Sample No.: AR1660CCC500 **Data File :** PP073655.D **Time Analyzed:** 20:17

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.639	5.539	5.739	486.000	500.000	-2.8
Aroclor-1016-2	5.660	5.560	5.760	498.610	500.000	-0.3
Aroclor-1016-3	5.723	5.622	5.822	497.930	500.000	-0.4
Aroclor-1016-4	5.820	5.720	5.920	509.260	500.000	1.9
Aroclor-1016-5	6.112	6.012	6.212	526.740	500.000	5.3
Aroclor-1260-1	7.229	7.129	7.329	501.500	500.000	0.3
Aroclor-1260-2	7.483	7.383	7.583	435.920	500.000	-12.8
Aroclor-1260-3	7.840	7.740	7.940	493.130	500.000	-1.4
Aroclor-1260-4	8.064	7.964	8.164	514.920	500.000	3.0
Aroclor-1260-5	8.382	8.283	8.483	507.030	500.000	1.4
Decachlorobiphenyl	10.177	10.076	10.276	55.510	50.000	11.0
Tetrachloro-m-xylene	4.488	4.388	4.588	51.800	50.000	3.6

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/07/2025 07/07/2025

Client Sample No.: CCAL05 **Date Analyzed:** 07/09/2025
Lab Sample No.: AR1660CCC500 **Data File :** PP073655.D **Time Analyzed:** 20:17

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.857	4.758	4.958	510.430	500.000	2.1
Aroclor-1016-2	4.875	4.775	4.975	511.730	500.000	2.3
Aroclor-1016-3	5.052	4.951	5.151	520.490	500.000	4.1
Aroclor-1016-4	5.093	4.993	5.193	519.190	500.000	3.8
Aroclor-1016-5	5.307	5.207	5.407	532.590	500.000	6.5
Aroclor-1260-1	6.337	6.237	6.437	501.490	500.000	0.3
Aroclor-1260-2	6.525	6.425	6.625	496.300	500.000	-0.7
Aroclor-1260-3	6.677	6.577	6.777	495.780	500.000	-0.8
Aroclor-1260-4	7.147	7.046	7.246	519.020	500.000	3.8
Aroclor-1260-5	7.389	7.289	7.489	521.930	500.000	4.4
Decachlorobiphenyl	8.780	8.680	8.880	56.570	50.000	13.1
Tetrachloro-m-xylene	3.779	3.678	3.878	50.850	50.000	1.7

Analytical Sequence

Client: CDM Smith	SDG No.: Q2529	
Project: South River WM Replacement	Instrument ID: ECD_O	
GC Column: ZB-MR1	ID: 0.32 (mm)	Inst. Calib. Date(s): 07/08/2025 07/08/2025

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 #
IBLK	IBLK	07/08/2025	13:49	PO112087.D	8.70	3.67
AR1660ICC1000	AR1660ICC1000	07/08/2025	14:06	PO112088.D	8.70	3.67
AR1660ICC750	AR1660ICC750	07/08/2025	14:25	PO112089.D	8.70	3.67
AR1660ICC500	AR1660ICC500	07/08/2025	14:43	PO112090.D	8.70	3.67
AR1660ICC250	AR1660ICC250	07/08/2025	15:02	PO112091.D	8.70	3.67
AR1660ICC050	AR1660ICC050	07/08/2025	15:21	PO112092.D	8.70	3.67
AR1221ICC500	AR1221ICC500	07/08/2025	15:38	PO112093.D	8.70	3.67
AR1232ICC500	AR1232ICC500	07/08/2025	15:57	PO112094.D	8.70	3.67
AR1242ICC1000	AR1242ICC1000	07/08/2025	16:15	PO112095.D	8.70	3.67
AR1242ICC750	AR1242ICC750	07/08/2025	16:34	PO112096.D	8.70	3.67
AR1242ICC500	AR1242ICC500	07/08/2025	16:52	PO112097.D	8.70	3.67
AR1242ICC250	AR1242ICC250	07/08/2025	17:11	PO112098.D	8.70	3.67
AR1242ICC050	AR1242ICC050	07/08/2025	17:29	PO112099.D	8.70	3.67
AR1248ICC1000	AR1248ICC1000	07/08/2025	17:48	PO112100.D	8.70	3.67
AR1248ICC750	AR1248ICC750	07/08/2025	18:05	PO112101.D	8.70	3.67
AR1248ICC500	AR1248ICC500	07/08/2025	18:24	PO112102.D	8.70	3.67
AR1248ICC250	AR1248ICC250	07/08/2025	18:41	PO112103.D	8.70	3.67
AR1248ICC050	AR1248ICC050	07/08/2025	18:59	PO112104.D	8.70	3.67
AR1254ICC1000	AR1254ICC1000	07/08/2025	19:18	PO112105.D	8.70	3.67
AR1254ICC750	AR1254ICC750	07/08/2025	19:35	PO112106.D	8.70	3.67
AR1254ICC500	AR1254ICC500	07/08/2025	19:54	PO112107.D	8.70	3.67
AR1254ICC250	AR1254ICC250	07/08/2025	20:11	PO112108.D	8.70	3.67
AR1254ICC050	AR1254ICC050	07/08/2025	20:28	PO112109.D	8.70	3.67
AR1262ICC500	AR1262ICC500	07/08/2025	20:47	PO112110.D	8.70	3.67
AR1268ICC1000	AR1268ICC1000	07/08/2025	21:04	PO112111.D	8.70	3.67
AR1268ICC750	AR1268ICC750	07/08/2025	21:22	PO112112.D	8.70	3.67
AR1268ICC500	AR1268ICC500	07/08/2025	21:39	PO112113.D	8.70	3.67
AR1268ICC250	AR1268ICC250	07/08/2025	21:57	PO112114.D	8.70	3.67
AR1268ICC050	AR1268ICC050	07/08/2025	22:16	PO112115.D	8.70	3.67
AR1660CCC500	AR1660CCC500	07/09/2025	15:32	PO112135.D	8.70	3.67
IBLK	IBLK	07/09/2025	17:05	PO112139.D	8.70	3.67
TP-91	Q2529-01	07/09/2025	18:17	PO112143.D	8.70	3.67
TP-80	Q2529-02	07/09/2025	18:34	PO112144.D	8.70	3.67
TP-79	Q2529-03	07/09/2025	18:52	PO112145.D	8.70	3.67
TP-95	Q2529-04	07/09/2025	19:09	PO112146.D	8.70	3.67
TP-98	Q2529-05	07/09/2025	19:27	PO112147.D	8.70	3.67
TP-102	Q2529-06	07/09/2025	19:45	PO112148.D	8.70	3.67
TP-101	Q2529-07	07/09/2025	20:02	PO112149.D	8.70	3.67
AR1660CCC500	AR1660CCC500	07/09/2025	21:13	PO112150.D	8.70	3.67
IBLK	IBLK	07/09/2025	22:57	PO112154.D	8.70	3.67
TP-89	Q2529-08	07/09/2025	23:15	PO112155.D	8.70	3.67
TP-33	Q2529-09	07/09/2025	23:33	PO112156.D	8.70	3.67

Analytical Sequence

TP-30	Q2529-10	07/09/2025	23:52	PO112157.D	8.70	3.67
AR1660CCC500	AR1660CCC500	07/10/2025	03:11	PO112165.D	8.70	3.67
LBLK	LBLK	07/10/2025	04:42	PO112169.D	8.70	3.67
LBLK	LBLK	07/07/2025	20:30	PP073553.D	10.18	4.49
AR1660ICC1000	AR1660ICC1000	07/07/2025	21:03	PP073554.D	10.18	4.49
AR1660ICC750	AR1660ICC750	07/07/2025	21:19	PP073555.D	10.18	4.49
AR1660ICC500	AR1660ICC500	07/07/2025	21:35	PP073556.D	10.18	4.49
AR1660ICC250	AR1660ICC250	07/07/2025	21:52	PP073557.D	10.18	4.49
AR1660ICC050	AR1660ICC050	07/07/2025	22:08	PP073558.D	10.17	4.49
AR1221ICC500	AR1221ICC500	07/07/2025	22:24	PP073559.D	10.18	4.49
AR1232ICC500	AR1232ICC500	07/07/2025	22:41	PP073560.D	10.18	4.49
AR1242ICC1000	AR1242ICC1000	07/07/2025	22:57	PP073561.D	10.18	4.49
AR1242ICC750	AR1242ICC750	07/07/2025	23:14	PP073562.D	10.18	4.49
AR1242ICC500	AR1242ICC500	07/07/2025	23:30	PP073563.D	10.17	4.49
AR1242ICC250	AR1242ICC250	07/07/2025	23:46	PP073564.D	10.18	4.49
AR1242ICC050	AR1242ICC050	07/08/2025	00:03	PP073565.D	10.17	4.49
AR1248ICC1000	AR1248ICC1000	07/08/2025	00:19	PP073566.D	10.18	4.49
AR1248ICC750	AR1248ICC750	07/08/2025	00:35	PP073567.D	10.18	4.49
AR1248ICC500	AR1248ICC500	07/08/2025	00:52	PP073568.D	10.17	4.49
AR1248ICC250	AR1248ICC250	07/08/2025	01:08	PP073569.D	10.18	4.49
AR1248ICC050	AR1248ICC050	07/08/2025	01:25	PP073570.D	10.17	4.49
AR1254ICC1000	AR1254ICC1000	07/08/2025	01:41	PP073571.D	10.18	4.49
AR1254ICC750	AR1254ICC750	07/08/2025	01:57	PP073572.D	10.18	4.49
AR1254ICC500	AR1254ICC500	07/08/2025	02:14	PP073573.D	10.17	4.49
AR1254ICC250	AR1254ICC250	07/08/2025	02:30	PP073574.D	10.18	4.49
AR1254ICC050	AR1254ICC050	07/08/2025	02:46	PP073575.D	10.18	4.49
AR1262ICC500	AR1262ICC500	07/08/2025	03:03	PP073576.D	10.18	4.49
AR1268ICC1000	AR1268ICC1000	07/08/2025	03:19	PP073577.D	10.18	4.49
AR1268ICC750	AR1268ICC750	07/08/2025	03:35	PP073578.D	10.18	4.49
AR1268ICC500	AR1268ICC500	07/08/2025	03:52	PP073579.D	10.18	4.49
AR1268ICC250	AR1268ICC250	07/08/2025	04:08	PP073580.D	10.17	4.49
AR1268ICC050	AR1268ICC050	07/08/2025	04:24	PP073581.D	10.18	4.49
AR1660CCC500	AR1660CCC500	07/09/2025	15:20	PP073640.D	10.18	4.49
LBLK	LBLK	07/09/2025	16:26	PP073644.D	10.18	4.49
PB168764BL	PB168764BL	07/09/2025	16:42	PP073645.D	10.18	4.49
PB168764BS	PB168764BS	07/09/2025	16:59	PP073646.D	10.18	4.49
TP-14MS	Q2517-01MS	07/09/2025	17:31	PP073648.D	10.18	4.49
TP-14MSD	Q2517-01MSD	07/09/2025	17:48	PP073649.D	10.18	4.49
AR1660CCC500	AR1660CCC500	07/09/2025	20:17	PP073655.D	10.18	4.49
LBLK	LBLK	07/09/2025	22:11	PP073659.D	10.18	4.49

Analytical Sequence

Client: CDM Smith	SDG No.: Q2529	
Project: South River WM Replacement	Instrument ID: ECD_O	
GC Column: ZB-MR2	ID: 0.32 (mm)	Inst. Calib. Date(s): 07/08/2025 07/08/2025

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 #
IBLK	IBLK	07/08/2025	13:49	PO112087.D	8.65	3.67
AR1660ICC1000	AR1660ICC1000	07/08/2025	14:06	PO112088.D	8.65	3.67
AR1660ICC750	AR1660ICC750	07/08/2025	14:25	PO112089.D	8.65	3.67
AR1660ICC500	AR1660ICC500	07/08/2025	14:43	PO112090.D	8.67	3.68
AR1660ICC250	AR1660ICC250	07/08/2025	15:02	PO112091.D	8.65	3.67
AR1660ICC050	AR1660ICC050	07/08/2025	15:21	PO112092.D	8.65	3.67
AR1221ICC500	AR1221ICC500	07/08/2025	15:38	PO112093.D	8.65	3.67
AR1232ICC500	AR1232ICC500	07/08/2025	15:57	PO112094.D	8.65	3.67
AR1242ICC1000	AR1242ICC1000	07/08/2025	16:15	PO112095.D	8.65	3.67
AR1242ICC750	AR1242ICC750	07/08/2025	16:34	PO112096.D	8.65	3.67
AR1242ICC500	AR1242ICC500	07/08/2025	16:52	PO112097.D	8.65	3.67
AR1242ICC250	AR1242ICC250	07/08/2025	17:11	PO112098.D	8.65	3.67
AR1242ICC050	AR1242ICC050	07/08/2025	17:29	PO112099.D	8.65	3.67
AR1248ICC1000	AR1248ICC1000	07/08/2025	17:48	PO112100.D	8.65	3.67
AR1248ICC750	AR1248ICC750	07/08/2025	18:05	PO112101.D	8.65	3.67
AR1248ICC500	AR1248ICC500	07/08/2025	18:24	PO112102.D	8.65	3.67
AR1248ICC250	AR1248ICC250	07/08/2025	18:41	PO112103.D	8.65	3.67
AR1248ICC050	AR1248ICC050	07/08/2025	18:59	PO112104.D	8.65	3.67
AR1254ICC1000	AR1254ICC1000	07/08/2025	19:18	PO112105.D	8.65	3.67
AR1254ICC750	AR1254ICC750	07/08/2025	19:35	PO112106.D	8.65	3.67
AR1254ICC500	AR1254ICC500	07/08/2025	19:54	PO112107.D	8.65	3.67
AR1254ICC250	AR1254ICC250	07/08/2025	20:11	PO112108.D	8.65	3.67
AR1254ICC050	AR1254ICC050	07/08/2025	20:28	PO112109.D	8.65	3.67
AR1262ICC500	AR1262ICC500	07/08/2025	20:47	PO112110.D	8.65	3.67
AR1268ICC1000	AR1268ICC1000	07/08/2025	21:04	PO112111.D	8.65	3.67
AR1268ICC750	AR1268ICC750	07/08/2025	21:22	PO112112.D	8.65	3.67
AR1268ICC500	AR1268ICC500	07/08/2025	21:39	PO112113.D	8.65	3.67
AR1268ICC250	AR1268ICC250	07/08/2025	21:57	PO112114.D	8.65	3.67
AR1268ICC050	AR1268ICC050	07/08/2025	22:16	PO112115.D	8.65	3.67
AR1660CCC500	AR1660CCC500	07/09/2025	15:32	PO112135.D	8.65	3.67
IBLK	IBLK	07/09/2025	17:05	PO112139.D	8.65	3.67
TP-91	Q2529-01	07/09/2025	18:17	PO112143.D	8.65	3.67
TP-80	Q2529-02	07/09/2025	18:34	PO112144.D	8.65	3.67
TP-79	Q2529-03	07/09/2025	18:52	PO112145.D	8.65	3.67
TP-95	Q2529-04	07/09/2025	19:09	PO112146.D	8.65	3.67
TP-98	Q2529-05	07/09/2025	19:27	PO112147.D	8.65	3.67
TP-102	Q2529-06	07/09/2025	19:45	PO112148.D	8.65	3.67
TP-101	Q2529-07	07/09/2025	20:02	PO112149.D	8.65	3.66
AR1660CCC500	AR1660CCC500	07/09/2025	21:13	PO112150.D	8.65	3.67
IBLK	IBLK	07/09/2025	22:57	PO112154.D	8.65	3.67
TP-89	Q2529-08	07/09/2025	23:15	PO112155.D	8.65	3.67
TP-33	Q2529-09	07/09/2025	23:33	PO112156.D	8.65	3.67

Analytical Sequence

TP-30	Q2529-10	07/09/2025	23:52	PO112157.D	8.65	3.67
AR1660CCC500	AR1660CCC500	07/10/2025	03:11	PO112165.D	8.65	3.67
LBLK	LBLK	07/10/2025	04:42	PO112169.D	8.65	3.67
LBLK	LBLK	07/07/2025	20:30	PP073553.D	8.78	3.78
AR1660ICC1000	AR1660ICC1000	07/07/2025	21:03	PP073554.D	8.78	3.78
AR1660ICC750	AR1660ICC750	07/07/2025	21:19	PP073555.D	8.78	3.78
AR1660ICC500	AR1660ICC500	07/07/2025	21:35	PP073556.D	8.78	3.78
AR1660ICC250	AR1660ICC250	07/07/2025	21:52	PP073557.D	8.78	3.78
AR1660ICC050	AR1660ICC050	07/07/2025	22:08	PP073558.D	8.78	3.78
AR1221ICC500	AR1221ICC500	07/07/2025	22:24	PP073559.D	8.78	3.78
AR1232ICC500	AR1232ICC500	07/07/2025	22:41	PP073560.D	8.78	3.78
AR1242ICC1000	AR1242ICC1000	07/07/2025	22:57	PP073561.D	8.78	3.78
AR1242ICC750	AR1242ICC750	07/07/2025	23:14	PP073562.D	8.78	3.78
AR1242ICC500	AR1242ICC500	07/07/2025	23:30	PP073563.D	8.78	3.78
AR1242ICC250	AR1242ICC250	07/07/2025	23:46	PP073564.D	8.78	3.78
AR1242ICC050	AR1242ICC050	07/08/2025	00:03	PP073565.D	8.78	3.78
AR1248ICC1000	AR1248ICC1000	07/08/2025	00:19	PP073566.D	8.78	3.78
AR1248ICC750	AR1248ICC750	07/08/2025	00:35	PP073567.D	8.78	3.78
AR1248ICC500	AR1248ICC500	07/08/2025	00:52	PP073568.D	8.78	3.78
AR1248ICC250	AR1248ICC250	07/08/2025	01:08	PP073569.D	8.78	3.78
AR1248ICC050	AR1248ICC050	07/08/2025	01:25	PP073570.D	8.78	3.78
AR1254ICC1000	AR1254ICC1000	07/08/2025	01:41	PP073571.D	8.78	3.78
AR1254ICC750	AR1254ICC750	07/08/2025	01:57	PP073572.D	8.78	3.78
AR1254ICC500	AR1254ICC500	07/08/2025	02:14	PP073573.D	8.78	3.78
AR1254ICC250	AR1254ICC250	07/08/2025	02:30	PP073574.D	8.78	3.78
AR1254ICC050	AR1254ICC050	07/08/2025	02:46	PP073575.D	8.78	3.78
AR1262ICC500	AR1262ICC500	07/08/2025	03:03	PP073576.D	8.78	3.78
AR1268ICC1000	AR1268ICC1000	07/08/2025	03:19	PP073577.D	8.78	3.78
AR1268ICC750	AR1268ICC750	07/08/2025	03:35	PP073578.D	8.78	3.78
AR1268ICC500	AR1268ICC500	07/08/2025	03:52	PP073579.D	8.78	3.78
AR1268ICC250	AR1268ICC250	07/08/2025	04:08	PP073580.D	8.78	3.78
AR1268ICC050	AR1268ICC050	07/08/2025	04:24	PP073581.D	8.78	3.78
AR1660CCC500	AR1660CCC500	07/09/2025	15:20	PP073640.D	8.78	3.78
LBLK	LBLK	07/09/2025	16:26	PP073644.D	8.78	3.78
PB168764BL	PB168764BL	07/09/2025	16:42	PP073645.D	8.78	3.78
PB168764BS	PB168764BS	07/09/2025	16:59	PP073646.D	8.78	3.78
TP-14MS	Q2517-01MS	07/09/2025	17:31	PP073648.D	8.78	3.78
TP-14MSD	Q2517-01MSD	07/09/2025	17:48	PP073649.D	8.78	3.78
AR1660CCC500	AR1660CCC500	07/09/2025	20:17	PP073655.D	8.78	3.78
LBLK	LBLK	07/09/2025	22:11	PP073659.D	8.78	3.78



QC SAMPLE DATA

A

B

C

D

E

F

G

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168764BL	SDG No.:	Q2529
Lab Sample ID:	PB168764BL	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	100
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
PP073645.D	1	07/09/25 08:20	07/09/25 16:42	PB168764

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	18.5		32 - 144	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		32 - 175	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

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-PO112087.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PO112087.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112087.D	1		07/08/25	po070825

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	19.4		60 - 140	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.8		60 - 140	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

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-PO112139.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PO112139.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112139.D	1		07/09/25	PO070925

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	19.3		60 - 140	96%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

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-PO112154.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PO112154.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112154.D	1		07/09/25	PO070925

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	19.6		60 - 140	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.1		60 - 140	101%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PO112169.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PO112169.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO112169.D	1		07/10/25	PO070925

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	21.3		60 - 140	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.2		60 - 140	101%	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

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-PP073553.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PP073553.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073553.D	1		07/07/25	pp070825

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	16.2		60 - 140	81%	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

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-PP073644.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PP073644.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073644.D	1		07/09/25	pp071025

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	17.7		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

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-PP073659.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PP073659.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	5030	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073659.D	1		07/09/25	pp071025

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	18.7		60 - 140	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.0		60 - 140	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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168764BS	SDG No.:	Q2529
Lab Sample ID:	PB168764BS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	100
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
PP073646.D	1	07/09/25 08:20	07/09/25 16:59	PB168764

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	155		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	151		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.6		32 - 144	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.7		32 - 175	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MS	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	87.8
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073648.D	1	07/09/25 08:20	07/09/25 17:31	PB168764

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	180		4.50	19.3	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.3	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.3	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.3	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.3	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.3	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.3	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.3	ug/kg
11096-82-5	Aroclor-1260	167		3.70	19.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.5		32 - 144	107%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.6		32 - 175	113%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/07/25
Client Sample ID:	TP-14MSD	SDG No.:	Q2529
Lab Sample ID:	Q2517-01MSD	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	87.8
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	PCB
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073649.D	1	07/09/25 08:20	07/09/25 17:48	PB168764

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	181		4.50	19.3	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.3	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.3	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.3	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.3	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.3	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.3	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.3	ug/kg
11096-82-5	Aroclor-1260	168		3.70	19.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.3		32 - 144	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.9		32 - 175	115%	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

LAB CHRONICLE

OrderID:	Q2529	OrderDate:	7/8/2025 3:36:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	TP-91	SOIL			07/03/25			07/08/25
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			Herbicide	8151A		07/11/25	07/18/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-02	TP-80	SOIL			07/07/25			07/08/25
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			Herbicide	8151A		07/11/25	07/18/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-03	TP-79	SOIL			07/07/25			07/08/25
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/11/25	
			Herbicide	8151A		07/11/25	07/18/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-04	TP-95	SOIL			07/07/25			07/08/25
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			Herbicide	8151A		07/11/25	07/18/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-05	TP-98	SOIL			07/07/25			07/08/25
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	

LAB CHRONICLE

Q2529-06	TP-102	SOIL	Herbicide	8151A	07/11/25	07/18/25	07/07/25	07/08/25
			PCB	8082A	07/09/25	07/09/25		
			Pesticide-TCL	8081B	07/09/25	07/09/25		
			Diesel Range Organics	8015D	07/16/25	07/17/25		
Q2529-07	TP-101	SOIL	Gasoline Range Organics	8015D		07/11/25	07/07/25	07/08/25
			Herbicide	8151A	07/11/25	07/18/25		
			PCB	8082A	07/09/25	07/09/25		
			Pesticide-TCL	8081B	07/09/25	07/09/25		
Q2529-08	TP-89	SOIL	Diesel Range Organics	8015D	07/16/25	07/16/25	07/08/25	07/08/25
			Gasoline Range Organics	8015D		07/10/25		
			Herbicide	8151A	07/11/25	07/18/25		
			PCB	8082A	07/09/25	07/09/25		
Q2529-09	TP-33	SOIL	Pesticide-TCL	8081B	07/09/25	07/09/25	07/08/25	07/08/25
			Diesel Range Organics	8015D	07/16/25	07/16/25		
			Gasoline Range Organics	8015D		07/11/25		
			Herbicide	8151A	07/11/25	07/18/25		
Q2529-10	TP-30	SOIL	PCB	8082A	07/09/25	07/09/25	07/08/25	07/08/25
			Pesticide-TCL	8081B	07/09/25	07/09/25		
			Diesel Range Organics	8015D	07/16/25	07/16/25		
			Gasoline Range Organics	8015D		07/10/25		
			Herbicide	8151A	07/11/25	07/18/25		
			PCB	8082A	07/09/25	07/09/25		
			Pesticide-TCL	8081B	07/09/25	07/09/25		
			Diesel Range Organics	8015D	07/16/25	07/16/25		



Hit Summary Sheet
SW-846

SDG No.:	Q2529	Order ID:	Q2529
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

A

B

C

D

E

F

G

H

Report of Analysis

Client:	CDM Smith		Date Collected:	07/03/25	
Project:	South River WM Replacement		Date Received:	07/08/25	
Client Sample ID:	TP-91		SDG No.:	Q2529	
Lab Sample ID:	Q2529-01		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	90.9	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
PS031133.D	1	07/11/25 08:50	07/18/25 16:33	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.50	U	8.50	73.6	ug/Kg
120-36-5	DICHLORPROP	14.1	U	14.1	73.6	ug/Kg
94-75-7	2,4-D	9.90	U	9.90	73.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.0	U	10.0	73.6	ug/Kg
93-76-5	2,4,5-T	9.60	U	9.60	73.6	ug/Kg
94-82-6	2,4-DB	26.6	U	26.6	73.6	ug/Kg
88-85-7	DINOSEB	11.9	U	11.9	73.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	128		10 - 141	26%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.7
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031134.D	1	07/11/25 08:50	07/18/25 16:57	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.50	U	8.50	73.7	ug/Kg
120-36-5	DICHLORPROP	14.1	U	14.1	73.7	ug/Kg
94-75-7	2,4-D	10.0	U	10.0	73.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.0	U	10.0	73.7	ug/Kg
93-76-5	2,4,5-T	9.60	U	9.60	73.7	ug/Kg
94-82-6	2,4-DB	26.6	U	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	261		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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.6
Sample Wt/Vol:	30.1	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031135.D	1	07/11/25 08:50	07/18/25 17:21	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.50	U	8.50	73.7	ug/Kg
120-36-5	DICHLORPROP	14.1	U	14.1	73.7	ug/Kg
94-75-7	2,4-D	9.90	U	9.90	73.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.0	U	10.0	73.7	ug/Kg
93-76-5	2,4,5-T	9.60	U	9.60	73.7	ug/Kg
94-82-6	2,4-DB	26.6	U	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	247		10 - 141	49%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	83.7
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031136.D	1	07/11/25 08:50	07/18/25 17:45	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.20	U	9.20	79.8	ug/Kg
120-36-5	DICHLORPROP	15.3	U	15.3	79.8	ug/Kg
94-75-7	2,4-D	10.8	U	10.8	79.8	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.8	U	10.8	79.8	ug/Kg
93-76-5	2,4,5-T	10.4	U	10.4	79.8	ug/Kg
94-82-6	2,4-DB	28.8	U	28.8	79.8	ug/Kg
88-85-7	DINOSEB	12.9	U	12.9	79.8	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	311		10 - 141	62%	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

Report of Analysis

Client:	CDM Smith		Date Collected:	07/07/25	
Project:	South River WM Replacement		Date Received:	07/08/25	
Client Sample ID:	TP-98		SDG No.:	Q2529	
Lab Sample ID:	Q2529-05		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	86.9	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
PS031137.D	1	07/11/25 08:50	07/18/25 18:09	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.90	U	8.90	76.9	ug/Kg
120-36-5	DICHLORPROP	14.7	U	14.7	76.9	ug/Kg
94-75-7	2,4-D	10.4	U	10.4	76.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.4	U	10.4	76.9	ug/Kg
93-76-5	2,4,5-T	10.0	U	10.0	76.9	ug/Kg
94-82-6	2,4-DB	27.8	U	27.8	76.9	ug/Kg
88-85-7	DINOSEB	12.4	U	12.4	76.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	216		10 - 141	43%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	95.6
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031138.D	1	07/11/25 08:50	07/18/25 18:33	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.10	U	8.10	70.0	ug/Kg
120-36-5	DICHLORPROP	13.4	U	13.4	70.0	ug/Kg
94-75-7	2,4-D	9.40	U	9.40	70.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.50	U	9.50	70.0	ug/Kg
93-76-5	2,4,5-T	9.10	U	9.10	70.0	ug/Kg
94-82-6	2,4-DB	25.3	U	25.3	70.0	ug/Kg
88-85-7	DINOSEB	11.3	U	11.3	70.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	188		10 - 141	38%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	89.7
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031139.D	1	07/11/25 08:50	07/18/25 18:57	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.60	U	8.60	74.6	ug/Kg
120-36-5	DICHLORPROP	14.2	U	14.2	74.6	ug/Kg
94-75-7	2,4-D	10.1	U	10.1	74.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.1	U	10.1	74.6	ug/Kg
93-76-5	2,4,5-T	9.70	U	9.70	74.6	ug/Kg
94-82-6	2,4-DB	26.9	U	26.9	74.6	ug/Kg
88-85-7	DINOSEB	12.0	U	12.0	74.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	268		10 - 141	54%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.1
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031140.D	1	07/11/25 08:50	07/18/25 19:21	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.60	U	8.60	74.3	ug/Kg
120-36-5	DICHLORPROP	14.2	U	14.2	74.3	ug/Kg
94-75-7	2,4-D	10.0	U	10.0	74.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.0	U	10.0	74.3	ug/Kg
93-76-5	2,4,5-T	9.60	U	9.60	74.3	ug/Kg
94-82-6	2,4-DB	26.8	U	26.8	74.3	ug/Kg
88-85-7	DINOSEB	12.0	U	12.0	74.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	185		10 - 141	37%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.5
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031141.D	1	07/11/25 08:50	07/18/25 19:46	PB168811

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	107		10 - 141	21%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	91.4
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031142.D	1	07/11/25 08:50	07/18/25 20:10	PB168811

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	190		10 - 141	38%	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



QC SUMMARY

A

B

C

D

E

F

G

H

Surrogate Summary

SDG No.: Q2529

Client: CDM Smith

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%)	
								Low	High
I.BLK-PS031005.D	PIBLK-PS031005.D	2,4-DCAA	1	500	356	71		61	136
		2,4-DCAA	2	500	496	99		61	136
I.BLK-PS031021.D	PIBLK-PS031021.D	2,4-DCAA	1	500	459	92		61	136
		2,4-DCAA	2	500	490	98		61	136
PB168811BL	PB168811BL	2,4-DCAA	1	500	401	80		10	141
		2,4-DCAA	2	500	474	95		10	141
PB168811BS	PB168811BS	2,4-DCAA	1	500	517	103		10	141
		2,4-DCAA	2	500	456	91		10	141
I.BLK-PS031027.D	PIBLK-PS031027.D	2,4-DCAA	1	500	428	86		61	136
		2,4-DCAA	2	500	483	97		61	136
I.BLK-PS031131.D	PIBLK-PS031131.D	2,4-DCAA	1	500	472	94		61	136
		2,4-DCAA	2	500	505	101		61	136
Q2529-01	TP-91	2,4-DCAA	1	500	121	24		10	141
		2,4-DCAA	2	500	128	26		10	141
Q2529-02	TP-80	2,4-DCAA	1	500	63.2	13		10	141
		2,4-DCAA	2	500	261	52		10	141
Q2529-03	TP-79	2,4-DCAA	1	500	111	22		10	141
		2,4-DCAA	2	500	247	49		10	141
Q2529-04	TP-95	2,4-DCAA	1	500	139	28		10	141
		2,4-DCAA	2	500	311	62		10	141
Q2529-05	TP-98	2,4-DCAA	1	500	116	23		10	141
		2,4-DCAA	2	500	216	43		10	141
Q2529-06	TP-102	2,4-DCAA	1	500	149	30		10	141
		2,4-DCAA	2	500	188	38		10	141
Q2529-07	TP-101	2,4-DCAA	1	500	164	33		10	141
		2,4-DCAA	2	500	268	54		10	141
Q2529-08	TP-89	2,4-DCAA	1	500	115	23		10	141
		2,4-DCAA	2	500	185	37		10	141
Q2529-09	TP-33	2,4-DCAA	1	500	107	21		10	141
		2,4-DCAA	2	500	59.6	12		10	141
Q2529-10	TP-30	2,4-DCAA	1	500	118	24		10	141
		2,4-DCAA	2	500	190	38		10	141
I.BLK-PS031143.D	PIBLK-PS031143.D	2,4-DCAA	1	500	473	95		61	136
		2,4-DCAA	2	500	506	101		61	136
Q2529-10MS	TP-30MS	2,4-DCAA	1	500	155	31		10	141
		2,4-DCAA	2	500	220	44		10	141
Q2529-10MSD	TP-30MSD	2,4-DCAA	1	500	180	36		10	141
		2,4-DCAA	2	500	257	51		10	141
I.BLK-PS031153.D	PIBLK-PS031153.D	2,4-DCAA	1	500	478	96		61	136
		2,4-DCAA	2	500	512	102		61	136

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>8151A</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PS031145.D</u>

	Parameter	Spike	Sample		Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits		RPD
			Result	Result							High		
Lab Sample ID:	Q2529-10MS (Column 1)	Client Sample ID:		TP-30MS									
	DICAMBA	182.3	0	83.6	ug/Kg	46				10		112	
	DICHLORPROP	182.3	0	84.5	ug/Kg	46				10		113	
	2,4-D	182.3	0	179	ug/Kg	98				10		144	
	2,4,5-TP(Silvex)	182.3	0	98.3	ug/Kg	54				10		114	
	2,4,5-T	182.3	0	121	ug/Kg	66				10		115	
	2,4-DB	182.3	0	30.0	ug/Kg	16				10		140	
	Dinoseb	182.3	0	0	ug/Kg	0	*			10		118	
Lab Sample ID:	Q2529-10MS (Column 2)	Client Sample ID:		TP-30MS									
	DICAMBA	182.3	0	82.7	ug/Kg	45				10		112	
	DICHLORPROP	182.3	0	90.6	ug/Kg	50				10		113	
	2,4-D	182.3	0	152	ug/Kg	83				10		144	
	2,4,5-TP(Silvex)	182.3	0	284	ug/Kg	156				10		114	
	2,4,5-T	182.3	0	85.0	ug/Kg	47				10		115	
	2,4-DB	182.3	0	29.1	ug/Kg	16				10		140	
	Dinoseb	182.3	0	0	ug/Kg	0	*			10		118	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>8151A</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PS031146.D</u>

	Parameter	Spike	Sample		Units	Rec	Rec Qual	RPD		Limits		RPD
			Result	Result				Qual	RPD	Low	High	
Lab Sample ID:	Q2529-10MSD (Column 1)	Client Sample ID:		TP-30MSD								
	DICAMBA	182	0	98.6	ug/Kg	54		16		10	112	20
	DICHLORPROP	182	0	102	ug/Kg	56		20		10	113	20
	2,4-D	182	0	192	ug/Kg	105		7		10	144	20
	2,4,5-TP(Silvex)	182	0	117	ug/Kg	64		17		10	114	20
	2,4,5-T	182	0	143	ug/Kg	79		18		10	115	20
	2,4-DB	182	0	32.0	ug/Kg	18		12		10	140	20
	Dinoseb	182	0	0	ug/Kg	0	*	0		10	118	20
Lab Sample ID:	Q2529-10MSD (Column 2)	Client Sample ID:		TP-30MSD								
	DICAMBA	182	0	98.1	ug/Kg	54		18		10	112	20
	DICHLORPROP	182	0	107	ug/Kg	59		17		10	113	20
	2,4-D	182	0	164	ug/Kg	90		8		10	144	20
	2,4,5-TP(Silvex)	182	0	297	ug/Kg	163		4		10	114	20
	2,4,5-T	182	0	101	ug/Kg	55		16		10	115	20
	2,4-DB	182	0	29.0	ug/Kg	16		0		10	140	20
	Dinoseb	182	0	0	ug/Kg	0	*	0		10	118	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2529</u>	Analytical Method:	<u>8151A</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>PS031024.D</u>

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB168811BS (Column 1)	DICAMBA	166.6	156	ug/Kg	94				72	129		
	DICHLORPROP	166.6	161	ug/Kg	97				77	135		
	2,4-D	166.6	185	ug/Kg	111				65	144		
	2,4,5-TP(Silvex)	166.6	174	ug/Kg	104				74	146		
	2,4,5-T	166.6	185	ug/Kg	111				77	134		
	2,4-DB	166.6	193	ug/Kg	116				72	122		
	Dinoseb	166.6	173	ug/Kg	104				74	132		
	DICAMBA	166.6	143	ug/Kg	86				72	129		
PB168811BS (Column 2)	DICHLORPROP	166.6	143	ug/Kg	86				77	135		
	2,4-D	166.6	145	ug/Kg	87				65	144		
	2,4,5-TP(Silvex)	166.6	149	ug/Kg	89				74	146		
	2,4,5-T	166.6	149	ug/Kg	89				77	134		
	2,4-DB	166.6	146	ug/Kg	88				72	122		
	Dinoseb	166.6	144	ug/Kg	86				74	132		

4C

PESTICIDE METHOD BLANK SUMMARY

Client ID

PB168811BL

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: PB168811BL

Lab File ID: PS031023.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 07/11/2025

Date Analyzed (1): 07/14/2025

Date Analyzed (2): 07/14/2025

Time Analyzed (1): 17:10

Time Analyzed (2): 17:10

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
PB168811BS	PB168811BS	PS031024.D	07/14/2025	07/14/2025
TP-91	Q2529-01	PS031133.D	07/18/2025	07/18/2025
TP-80	Q2529-02	PS031134.D	07/18/2025	07/18/2025
TP-79	Q2529-03	PS031135.D	07/18/2025	07/18/2025
TP-95	Q2529-04	PS031136.D	07/18/2025	07/18/2025
TP-98	Q2529-05	PS031137.D	07/18/2025	07/18/2025
TP-102	Q2529-06	PS031138.D	07/18/2025	07/18/2025
TP-101	Q2529-07	PS031139.D	07/18/2025	07/18/2025
TP-89	Q2529-08	PS031140.D	07/18/2025	07/18/2025
TP-33	Q2529-09	PS031141.D	07/18/2025	07/18/2025
TP-30	Q2529-10	PS031142.D	07/18/2025	07/18/2025
TP-30MS	Q2529-10MS	PS031145.D	07/18/2025	07/18/2025
TP-30MSD	Q2529-10MSD	PS031146.D	07/18/2025	07/18/2025

COMMENTS: _____



QC SAMPLE DATA

A

B

C

D

E

F

G

H

Report of Analysis

Client:	CDM Smith		Date Collected:		
Project:	South River WM Replacement		Date Received:		
Client Sample ID:	PB168811BL		SDG No.:	Q2529	
Lab Sample ID:	PB168811BL		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
PS031023.D	1	07/11/25 08:50	07/14/25 17:10	PB168811

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	474		10 - 141	95%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/11/25
Project:	South River WM Replacement	Date Received:	07/11/25
Client Sample ID:	PIBLK-PS031005.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PS031005.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031005.D	1		07/11/25	PS071125

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	496		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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/14/25
Project:	South River WM Replacement	Date Received:	07/14/25
Client Sample ID:	PIBLK-PS031021.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PS031021.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031021.D	1		07/14/25	ps071425

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	490		61 - 136	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/14/25
Project:	South River WM Replacement	Date Received:	07/14/25
Client Sample ID:	PIBLK-PS031027.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PS031027.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031027.D	1		07/14/25	ps071425

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	483		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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/18/25
Project:	South River WM Replacement	Date Received:	07/18/25
Client Sample ID:	PIBLK-PS031131.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PS031131.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031131.D	1		07/18/25	ps071825

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	505		61 - 136	101%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/18/25
Project:	South River WM Replacement	Date Received:	07/18/25
Client Sample ID:	PIBLK-PS031143.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PS031143.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031143.D	1		07/18/25	ps071825

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	506		61 - 136	101%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/19/25
Project:	South River WM Replacement	Date Received:	07/19/25
Client Sample ID:	PIBLK-PS031153.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-PS031153.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031153.D	1		07/19/25	ps071825

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	512		61 - 136	102%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168811BS	SDG No.:	Q2529
Lab Sample ID:	PB168811BS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031024.D	1	07/11/25 08:50	07/14/25 17:38	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	156		7.70	67.0	ug/Kg
120-36-5	DICHLORPROP	161		12.8	67.0	ug/Kg
94-75-7	2,4-D	185		9.00	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	174		9.10	67.0	ug/Kg
93-76-5	2,4,5-T	185		8.70	67.0	ug/Kg
94-82-6	2,4-DB	193		24.2	67.0	ug/Kg
88-85-7	DINOSEB	173		10.8	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	517		10 - 141	103%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30MS	SDG No.:	Q2529
Lab Sample ID:	Q2529-10MS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	91.4
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031145.D	1	07/11/25 08:50	07/18/25 21:46	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	83.6		8.50	73.3	ug/Kg
120-36-5	DICHLORPROP	90.6		14.0	73.3	ug/Kg
94-75-7	2,4-D	179		9.90	73.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	284	P	9.90	73.3	ug/Kg
93-76-5	2,4,5-T	121		9.50	73.3	ug/Kg
94-82-6	2,4-DB	30.0	J	26.5	73.3	ug/Kg
88-85-7	DINOSEB	11.8	U	11.8	73.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	220		10 - 141	44%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30MSD	SDG No.:	Q2529
Lab Sample ID:	Q2529-10MSD	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	91.4
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS031146.D	1	07/11/25 08:50	07/18/25 22:10	PB168811

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	98.6		8.50	73.2	ug/Kg
120-36-5	DICHLORPROP	107		14.0	73.2	ug/Kg
94-75-7	2,4-D	192		9.90	73.2	ug/Kg
93-72-1	2,4,5-TP (Silvex)	297	P	9.90	73.2	ug/Kg
93-76-5	2,4,5-T	143		9.50	73.2	ug/Kg
94-82-6	2,4-DB	32.0	J	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	257		10 - 141	51%	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



CALIBRATION SUMMARY

A

B

C

D

E

F

G

H

RETENTION TIMES OF INITIAL CALIBRATION

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Instrument ID:	<u>ECD_S</u>	Calibration Date(s):	<u>07/11/2025</u> <u>07/11/2025</u>
		Calibration Times:	<u>16:00</u> <u>17:36</u>

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID:	RT 200 = <u>PS031006.D</u>	RT 500 = <u>PS031007.D</u>
RT 750 = <u>PS031008.D</u>	RT 1000 = <u>PS031009.D</u>	RT 1500 = <u>PS031010.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	9.65	9.65	9.65	9.65	9.65	9.65	9.55	9.75
2,4,5-TP(Silvex)	9.35	9.35	9.35	9.35	9.35	9.35	9.25	9.45
2,4-D	8.47	8.47	8.47	8.47	8.47	8.47	8.37	8.57
2,4-DB	10.23	10.23	10.23	10.22	10.22	10.22	10.12	10.32
2,4-DCAA	7.33	7.33	7.33	7.33	7.33	7.33	7.23	7.43
DICAMBA	7.52	7.52	7.52	7.52	7.52	7.52	7.42	7.62
DICHLORPROP	8.23	8.23	8.24	8.23	8.23	8.23	8.13	8.33
Dinoseb	11.44	11.44	11.44	11.44	11.44	11.44	11.34	11.54

RETENTION TIMES OF INITIAL CALIBRATION

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Instrument ID:	<u>ECD_S</u>	Calibration Date(s):	<u>07/11/2025</u> <u>07/11/2025</u>
		Calibration Times:	<u>16:00</u> <u>17:36</u>

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID:	RT 200 = <u>PS031006.D</u>	RT 500 = <u>PS031007.D</u>
	RT 750 = <u>PS031008.D</u>	RT 1000 = <u>PS031009.D</u>
		RT 1500 = <u>PS031010.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S

Contract: CAMP02
SDG NO.: Q2529

Calibration Date(s): 07/11/2025 07/11/2025
Calibration Times: 16:00 17:36

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID:		CF 200 =	<u>PS031006.D</u>	CF 500 =	<u>PS031007.D</u>		
CF 750 =		<u>PS031008.D</u>	CF 1000 =	<u>PS031009.D</u>	CF 1500 =	<u>PS031010.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	16153700000	14634600000	14827200000	15218900000	15232300000	15213300000	4
2,4,5-TP(Silvex)	20737500000	18270800000	18189000000	18194100000	17662300000	18610700000	7
2,4-D	3556670000	2984170000	2931980000	2976850000	2942510000	3078440000	9
2,4-DB	2297930000	2042050000	2088340000	2166500000	2259130000	2170790000	5
2,4-DCAA	4821770000	3910250000	3755950000	3730170000	3557220000	3955070000	13
DICAMBA	18746100000	15451800000	15023600000	14973000000	14260000000	15690900000	11
DICHLORPROP	4147310000	3328120000	3223340000	3219630000	3107370000	3405150000	12
Dinoseb	14412500000	12754600000	12827100000	13048300000	12877100000	13183900000	5

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S

Contract: CAMP02
SDG NO.: Q2529

Calibration Date(s): 07/11/2025 07/11/2025
Calibration Times: 16:00 17:36

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID:		CF 200 =	<u>PS031006.D</u>	CF 500 =	<u>PS031007.D</u>		
CF 750 =		<u>PS031008.D</u>	CF 1000 =	<u>PS031009.D</u>	CF 1500 =	<u>PS031010.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	16269400000	13765000000	13530200000	13537000000	12857400000	13991800000	9
2,4,5-TP(Silvex)	17216300000	14510800000	14174600000	14131100000	13346200000	14675800000	10
2,4-D	2058060000	1665160000	1617550000	1610710000	1545850000	1699460000	12
2,4-DB	1412490000	1151430000	1126050000	1131610000	1094330000	1183180000	11
2,4-DCAA	1258080000	1011280000	984071000	981302000	945431000	1036030000	12
DICAMBA	7306630000	6285710000	6261030000	6359950000	6168790000	6476420000	7
DICHLORPROP	1860680000	1491170000	1445400000	1431140000	1367910000	1519260000	13
Dinoseb	13202400000	11075600000	10918600000	11003800000	10557100000	11351500000	9

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
Continuing Calib Date: 07/14/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025
Continuing Calib Time: 16:34 **Initial Calibration Time(s):** 16:00 17:36

GC Column: RTX-CLP **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.52	7.52	7.42	7.62	0.00
2,4-DCAA	7.33	7.33	7.23	7.43	0.00
DICHLORPROP	8.23	8.24	8.14	8.34	0.01
2,4-D	8.47	8.47	8.37	8.57	0.00
2,4,5-TP(Silvex)	9.35	9.35	9.25	9.45	0.00
2,4,5-T	9.65	9.65	9.55	9.75	0.00
2,4-DB	10.22	10.23	10.13	10.33	0.01
Dinoseb	11.44	11.44	11.34	11.54	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/14/2025</u>	Initial Calibration Date(s):	<u>07/11/2025</u> <u>07/11/2025</u>
Continuing Calib Time:	<u>16:34</u>	Initial Calibration Time(s):	<u>16:00</u> <u>17:36</u>

GC Column: RTX-CLP2 **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
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	10.36	10.36	10.26	10.46	0.00
2,4-DB	10.92	10.93	10.83	11.03	0.01
Dinoseb	11.31	11.31	11.21	11.41	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/14/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031022.D **Time Analyzed:** 16:34

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.646	9.547	9.747	783.010	712.500	9.9
2,4,5-TP(Silvex)	9.351	9.253	9.453	715.530	712.500	0.4
2,4-D	8.466	8.367	8.567	745.710	705.000	5.8
2,4-DB	10.223	10.125	10.325	830.760	712.500	16.6
2,4-DCAA	7.332	7.233	7.433	695.670	750.000	-7.2
DICAMBA	7.521	7.422	7.622	650.910	705.000	-7.7
DICHLORPROP	8.234	8.135	8.335	655.790	705.000	-7.0
Dinoseb	11.440	11.339	11.539	724.700	705.000	2.8

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/14/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031022.D **Time Analyzed:** 16:34

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.356	10.258	10.458	620.360	712.500	-12.9
2,4,5-TP(Silvex)	9.929	9.832	10.032	618.290	712.500	-13.2
2,4-D	9.024	8.927	9.127	599.860	705.000	-14.9
2,4-DB	10.924	10.826	11.026	610.180	712.500	-14.4
2,4-DCAA	7.766	7.669	7.869	627.630	750.000	-16.3
DICAMBA	7.968	7.871	8.071	603.010	705.000	-14.5
DICHLORPROP	8.688	8.591	8.791	597.240	705.000	-15.3
Dinoseb	11.308	11.210	11.410	608.040	705.000	-13.8

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/14/2025</u>	Initial Calibration Date(s):	<u>07/11/2025</u> <u>07/11/2025</u>
Continuing Calib Time:	<u>21:09</u>	Initial Calibration Time(s):	<u>16:00</u> <u>17:36</u>

GC Column: RTX-CLP **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.52	7.52	7.42	7.62	0.00
2,4-DCAA	7.33	7.33	7.23	7.43	0.00
DICHLORPROP	8.23	8.24	8.14	8.34	0.01
2,4-D	8.47	8.47	8.37	8.57	0.00
2,4,5-TP(Silvex)	9.35	9.35	9.25	9.45	0.00
2,4,5-T	9.64	9.65	9.55	9.75	0.01
2,4-DB	10.22	10.23	10.13	10.33	0.01
Dinoseb	11.44	11.44	11.34	11.54	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/14/2025</u>	Initial Calibration Date(s):	<u>07/11/2025</u> <u>07/11/2025</u>
Continuing Calib Time:	<u>21:09</u>	Initial Calibration Time(s):	<u>16:00</u> <u>17:36</u>

GC Column: RTX-CLP2 **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/14/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031028.D **Time Analyzed:** 21:09

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.644	9.547	9.747	779.770	712.500	9.4
2,4,5-TP(Silvex)	9.350	9.253	9.453	713.000	712.500	0.1
2,4-D	8.465	8.367	8.567	718.070	705.000	1.9
2,4-DB	10.221	10.125	10.325	828.510	712.500	16.3
2,4-DCAA	7.331	7.233	7.433	615.310	750.000	-18.0
DICAMBA	7.520	7.422	7.622	637.220	705.000	-9.6
DICHLORPROP	8.232	8.135	8.335	653.380	705.000	-7.3
Dinoseb	11.436	11.339	11.539	719.910	705.000	2.1

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/14/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031028.D **Time Analyzed:** 21:09

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.358	10.258	10.458	625.920	712.500	-12.2
2,4,5-TP(Silvex)	9.932	9.832	10.032	624.030	712.500	-12.4
2,4-D	9.027	8.927	9.127	604.190	705.000	-14.3
2,4-DB	10.926	10.826	11.026	615.440	712.500	-13.6
2,4-DCAA	7.768	7.669	7.869	636.340	750.000	-15.2
DICAMBA	7.971	7.871	8.071	608.800	705.000	-13.6
DICHLORPROP	8.691	8.591	8.791	602.040	705.000	-14.6
Dinoseb	11.311	11.210	11.410	610.300	705.000	-13.4

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/18/2025</u>	Initial Calibration Date(s):	<u>07/11/2025</u> <u>07/11/2025</u>
Continuing Calib Time:	<u>15:39</u>	Initial Calibration Time(s):	<u>16:00</u> <u>17:36</u>

GC Column: RTX-CLP **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.52	7.52	7.42	7.62	0.01
2,4-DCAA	7.33	7.33	7.23	7.43	0.00
DICHLORPROP	8.23	8.24	8.14	8.34	0.01
2,4-D	8.46	8.47	8.37	8.57	0.01
2,4,5-TP(Silvex)	9.35	9.35	9.25	9.45	0.00
2,4,5-T	9.64	9.65	9.55	9.75	0.01
2,4-DB	10.22	10.23	10.13	10.33	0.01
Dinoseb	11.43	11.44	11.34	11.54	0.01

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Continuing Calib Date: 07/18/2025 Initial Calibration Date(s): 07/11/2025 07/11/2025

Continuing Calib Time: 15:39 Initial Calibration Time(s): 16:00 17:36

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM 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	0.01
2,4-DB	10.92	10.93	10.83	11.03	0.01
Dinoseb	11.31	11.31	11.21	11.41	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/18/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031132.D **Time Analyzed:** 15:39

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.639	9.547	9.747	826.390	712.500	16.0
2,4,5-TP(Silvex)	9.345	9.253	9.453	770.640	712.500	8.2
2,4-D	8.459	8.367	8.567	824.550	705.000	17.0
2,4-DB	10.217	10.125	10.325	818.610	712.500	14.9
2,4-DCAA	7.326	7.233	7.433	705.130	750.000	-6.0
DICAMBA	7.515	7.422	7.622	616.040	705.000	-12.6
DICHLORPROP	8.228	8.135	8.335	736.280	705.000	4.4
Dinoseb	11.431	11.339	11.539	730.630	705.000	3.6

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/18/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031132.D **Time Analyzed:** 15:39

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.355	10.258	10.458	625.360	712.500	-12.2
2,4,5-TP(Silvex)	9.928	9.832	10.032	642.510	712.500	-9.8
2,4-D	9.023	8.927	9.127	665.480	705.000	-5.6
2,4-DB	10.923	10.826	11.026	610.290	712.500	-14.3
2,4-DCAA	7.764	7.669	7.869	642.990	750.000	-14.3
DICAMBA	7.966	7.871	8.071	610.130	705.000	-13.5
DICHLORPROP	8.687	8.591	8.791	638.060	705.000	-9.5
Dinoseb	11.307	11.210	11.410	595.740	705.000	-15.5

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2529

Continuing Calib Date: 07/18/2025 Initial Calibration Date(s): 07/11/2025 07/11/2025

Continuing Calib Time: 21:22 Initial Calibration Time(s): 16:00 17:36

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.51	7.52	7.42	7.62	0.01
2,4-DCAA	7.32	7.33	7.23	7.43	0.01
DICHLORPROP	8.23	8.24	8.14	8.34	0.01
2,4-D	8.46	8.47	8.37	8.57	0.01
2,4,5-TP(Silvex)	9.34	9.35	9.25	9.45	0.01
2,4,5-T	9.64	9.65	9.55	9.75	0.01
2,4-DB	10.21	10.23	10.13	10.33	0.02
Dinoseb	11.43	11.44	11.34	11.54	0.01

CALIBRATION VERIFICATION SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>CAMP02</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2529</u>
Continuing Calib Date:	<u>07/18/2025</u>	Initial Calibration Date(s):	<u>07/11/2025</u> <u>07/11/2025</u>
Continuing Calib Time:	<u>21:22</u>	Initial Calibration Time(s):	<u>16:00</u> <u>17:36</u>

GC Column: RTX-CLP2 **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
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	10.36	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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/18/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031144.D **Time Analyzed:** 21:22

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.636	9.547	9.747	850.050	712.500	19.3
2,4,5-TP(Silvex)	9.342	9.253	9.453	804.740	712.500	12.9
2,4-D	8.456	8.367	8.567	830.710	705.000	17.8
2,4-DB	10.212	10.125	10.325	846.420	712.500	18.8
2,4-DCAA	7.324	7.233	7.433	726.770	750.000	-3.1
DICAMBA	7.514	7.422	7.622	633.820	705.000	-10.1
DICHLORPROP	8.225	8.135	8.335	765.780	705.000	8.6
Dinoseb	11.427	11.339	11.539	785.940	705.000	11.5

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL04 **Date Analyzed:** 07/18/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031144.D **Time Analyzed:** 21:22

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.355	10.258	10.458	657.810	712.500	-7.7
2,4,5-TP(Silvex)	9.928	9.832	10.032	675.600	712.500	-5.2
2,4-D	9.023	8.927	9.127	699.880	705.000	-0.7
2,4-DB	10.922	10.826	11.026	628.760	712.500	-11.8
2,4-DCAA	7.766	7.669	7.869	674.350	750.000	-10.1
DICAMBA	7.968	7.871	8.071	640.590	705.000	-9.1
DICHLORPROP	8.687	8.591	8.791	675.920	705.000	-4.1
Dinoseb	11.307	11.210	11.410	635.440	705.000	-9.9

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
Continuing Calib Date: 07/19/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025
Continuing Calib Time: 01:23 **Initial Calibration Time(s):** 16:00 17:36

GC Column: RTX-CLP **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.51	7.52	7.42	7.62	0.01
2,4-DCAA	7.32	7.33	7.23	7.43	0.01
DICHLORPROP	8.23	8.24	8.14	8.34	0.01
2,4-D	8.46	8.47	8.37	8.57	0.01
2,4,5-TP(Silvex)	9.34	9.35	9.25	9.45	0.01
2,4,5-T	9.63	9.65	9.55	9.75	0.02
2,4-DB	10.21	10.23	10.13	10.33	0.02
Dinoseb	11.43	11.44	11.34	11.54	0.01

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
Continuing Calib Date: 07/19/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025
Continuing Calib Time: 01:23 **Initial Calibration Time(s):** 16:00 17:36

GC Column: RTX-CLP2 **ID:** 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
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	10.36	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

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL05 **Date Analyzed:** 07/19/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031154.D **Time Analyzed:** 01:23

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.634	9.547	9.747	850.700	712.500	19.4
2,4,5-TP(Silvex)	9.341	9.253	9.453	799.060	712.500	12.1
2,4-D	8.456	8.367	8.567	832.130	705.000	18.0
2,4-DB	10.212	10.125	10.325	844.050	712.500	18.5
2,4-DCAA	7.324	7.233	7.433	724.370	750.000	-3.4
DICAMBA	7.513	7.422	7.622	632.640	705.000	-10.3
DICHLORPROP	8.225	8.135	8.335	762.560	705.000	8.2
Dinoseb	11.425	11.339	11.539	764.380	705.000	8.4

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2529
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

Client Sample No.: CCAL05 **Date Analyzed:** 07/19/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS031154.D **Time Analyzed:** 01:23

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.355	10.258	10.458	653.850	712.500	-8.2
2,4,5-TP(Silvex)	9.928	9.832	10.032	673.340	712.500	-5.5
2,4-D	9.023	8.927	9.127	693.610	705.000	-1.6
2,4-DB	10.923	10.826	11.026	629.860	712.500	-11.6
2,4-DCAA	7.765	7.669	7.869	671.450	750.000	-10.5
DICAMBA	7.967	7.871	8.071	639.590	705.000	-9.3
DICHLORPROP	8.687	8.591	8.791	665.820	705.000	-5.6
Dinoseb	11.306	11.210	11.410	623.520	705.000	-11.6

Analytical Sequence

Client: CDM Smith	SDG No.: Q2529
Project: South River WM Replacement	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 07/11/2025 07/11/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	07/11/2025	15:35	PS031005.D	7.33	0.00
HSTDICC200	HSTDICC200	07/11/2025	16:00	PS031006.D	7.33	0.00
HSTDICC500	HSTDICC500	07/11/2025	16:24	PS031007.D	7.33	0.00
HSTDICC750	HSTDICC750	07/11/2025	16:48	PS031008.D	7.33	0.00
HSTDICC1000	HSTDICC1000	07/11/2025	17:12	PS031009.D	7.33	0.00
HSTDICC1500	HSTDICC1500	07/11/2025	17:36	PS031010.D	7.33	0.00
IBLK	IBLK	07/14/2025	12:17	PS031021.D	7.33	0.00
HSTDCCC750	HSTDCCC750	07/14/2025	16:34	PS031022.D	7.33	0.00
PB168811BL	PB168811BL	07/14/2025	17:10	PS031023.D	7.33	0.00
PB168811BS	PB168811BS	07/14/2025	17:38	PS031024.D	7.33	0.00
IBLK	IBLK	07/14/2025	19:32	PS031027.D	7.33	0.00
HSTDCCC750	HSTDCCC750	07/14/2025	21:09	PS031028.D	7.33	0.00
IBLK	IBLK	07/18/2025	14:17	PS031131.D	7.33	0.00
HSTDCCC750	HSTDCCC750	07/18/2025	15:39	PS031132.D	7.33	0.00
TP-91	Q2529-01	07/18/2025	16:33	PS031133.D	7.32	0.00
TP-80	Q2529-02	07/18/2025	16:57	PS031134.D	7.31	0.00
TP-79	Q2529-03	07/18/2025	17:21	PS031135.D	7.32	0.00
TP-95	Q2529-04	07/18/2025	17:45	PS031136.D	7.32	0.00
TP-98	Q2529-05	07/18/2025	18:09	PS031137.D	7.32	0.00
TP-102	Q2529-06	07/18/2025	18:33	PS031138.D	7.32	0.00
TP-101	Q2529-07	07/18/2025	18:57	PS031139.D	7.32	0.00
TP-89	Q2529-08	07/18/2025	19:21	PS031140.D	7.32	0.00
TP-33	Q2529-09	07/18/2025	19:46	PS031141.D	7.32	0.00
TP-30	Q2529-10	07/18/2025	20:10	PS031142.D	7.32	0.00
IBLK	IBLK	07/18/2025	20:34	PS031143.D	7.32	0.00
HSTDCCC750	HSTDCCC750	07/18/2025	21:22	PS031144.D	7.32	0.00
TP-30MS	Q2529-10MS	07/18/2025	21:46	PS031145.D	7.32	0.00
TP-30MSD	Q2529-10MSD	07/18/2025	22:10	PS031146.D	7.32	0.00
IBLK	IBLK	07/19/2025	00:59	PS031153.D	7.32	0.00
HSTDCCC750	HSTDCCC750	07/19/2025	01:23	PS031154.D	7.32	0.00

Analytical Sequence

Client: CDM Smith	SDG No.: Q2529
Project: South River WM Replacement	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 07/11/2025 07/11/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	07/11/2025	15:35	PS031005.D	7.77	0.00
HSTDICC200	HSTDICC200	07/11/2025	16:00	PS031006.D	7.77	0.00
HSTDICC500	HSTDICC500	07/11/2025	16:24	PS031007.D	7.77	0.00
HSTDICC750	HSTDICC750	07/11/2025	16:48	PS031008.D	7.77	0.00
HSTDICC1000	HSTDICC1000	07/11/2025	17:12	PS031009.D	7.77	0.00
HSTDICC1500	HSTDICC1500	07/11/2025	17:36	PS031010.D	7.77	0.00
IBLK	IBLK	07/14/2025	12:17	PS031021.D	7.76	0.00
HSTDCCC750	HSTDCCC750	07/14/2025	16:34	PS031022.D	7.77	0.00
PB168811BL	PB168811BL	07/14/2025	17:10	PS031023.D	7.77	0.00
PB168811BS	PB168811BS	07/14/2025	17:38	PS031024.D	7.77	0.00
IBLK	IBLK	07/14/2025	19:32	PS031027.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/14/2025	21:09	PS031028.D	7.77	0.00
IBLK	IBLK	07/18/2025	14:17	PS031131.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/18/2025	15:39	PS031132.D	7.76	0.00
TP-91	Q2529-01	07/18/2025	16:33	PS031133.D	7.77	0.00
TP-80	Q2529-02	07/18/2025	16:57	PS031134.D	7.78	0.00
TP-79	Q2529-03	07/18/2025	17:21	PS031135.D	7.77	0.00
TP-95	Q2529-04	07/18/2025	17:45	PS031136.D	7.77	0.00
TP-98	Q2529-05	07/18/2025	18:09	PS031137.D	7.77	0.00
TP-102	Q2529-06	07/18/2025	18:33	PS031138.D	7.77	0.00
TP-101	Q2529-07	07/18/2025	18:57	PS031139.D	7.77	0.00
TP-89	Q2529-08	07/18/2025	19:21	PS031140.D	7.77	0.00
TP-33	Q2529-09	07/18/2025	19:46	PS031141.D	7.77	0.00
TP-30	Q2529-10	07/18/2025	20:10	PS031142.D	7.77	0.00
IBLK	IBLK	07/18/2025	20:34	PS031143.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/18/2025	21:22	PS031144.D	7.77	0.00
TP-30MS	Q2529-10MS	07/18/2025	21:46	PS031145.D	7.77	0.00
TP-30MSD	Q2529-10MSD	07/18/2025	22:10	PS031146.D	7.77	0.00
IBLK	IBLK	07/19/2025	00:59	PS031153.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/19/2025	01:23	PS031154.D	7.77	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168811BS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: PB168811BS

Date(s) Analyzed: 07/14/2025 07/14/2025

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		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	9.65	9.60	9.70	185	21.6
	2	10.36	10.31	10.41	149	
2,4,5-TP(Silvex)	1	9.35	9.30	9.40	174	15.5
	2	9.93	9.88	9.98	149	
2,4-D	1	8.47	8.42	8.52	185	24.2
	2	9.02	8.97	9.07	145	
2,4-DB	1	10.22	10.17	10.27	193	27.7
	2	10.92	10.87	10.97	146	
DICHLORPROP	1	8.23	8.18	8.28	161	11.8
	2	8.69	8.64	8.74	143	
Dinoseb	1	11.44	11.39	11.49	173	18.3
	2	11.31	11.26	11.36	144	
DICAMBA	1	7.52	7.47	7.57	156	8.7
	2	7.97	7.92	8.02	143	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-30MS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: Q2529-10MS

Date(s) Analyzed: 07/18/2025 07/18/2025

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		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	9.64	9.59	9.69	121	35
	2	10.35	10.30	10.40	85.0	
2,4,5-TP(Silvex)	1	9.34	9.29	9.39	98.3	97.1
	2	9.94	9.89	9.99	284	
2,4-D	1	8.46	8.41	8.51	179	16.3
	2	9.03	8.98	9.08	152	
2,4-DB	1	10.21	10.16	10.26	30.0	3
	2	10.92	10.87	10.97	29.1	
DICHLORPROP	1	8.23	8.18	8.28	84.5	7
	2	8.69	8.64	8.74	90.6	
DICAMBA	1	7.51	7.46	7.56	83.6	1.1
	2	7.97	7.92	8.02	82.7	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-30MSD

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab Sample ID: Q2529-10MSD

Date(s) Analyzed: 07/18/2025 07/18/2025

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		CONCENTRATION	%RPD
			FROM	TO		
2,4,5-T	1	9.64	9.59	9.69	143	34.4
	2	10.35	10.30	10.40	101	
DICHLORPROP	1	8.23	8.18	8.28	102	4.8
	2	8.69	8.64	8.74	107	
2,4-D	1	8.46	8.41	8.51	192	15.7
	2	9.03	8.98	9.08	164	
2,4,5-TP(Silvex)	1	9.34	9.29	9.39	117	87
	2	9.94	9.89	9.99	297	
2,4-DB	1	10.21	10.16	10.26	32.0	9.8
	2	10.92	10.87	10.97	29.0	
DICAMBA	1	7.51	7.46	7.56	98.6	0.5
	2	7.97	7.92	8.02	98.1	

LAB CHRONICLE

OrderID:	Q2529	OrderDate:	7/8/2025 3:36:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	TP-91	SOIL			07/03/25			07/08/25
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-02	TP-80	SOIL			07/07/25			07/08/25
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-03	TP-79	SOIL			07/07/25			07/08/25
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/11/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-04	TP-95	SOIL			07/07/25			07/08/25
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-05	TP-98	SOIL			07/07/25			07/08/25
			Diesel Range Organics	8015D		07/16/25	07/16/25	
			Gasoline Range Organics	8015D			07/10/25	
			PCB	8082A		07/09/25	07/09/25	
			Pesticide-TCL	8081B		07/09/25	07/09/25	
Q2529-06	TP-102	SOIL			07/07/25			07/08/25
			Diesel Range Organics	8015D		07/16/25	07/17/25	

LAB CHRONICLE

Q2529-07	TP-101	SOIL	Gasoline Range Organics	8015D		07/11/25	
			PCB	8082A	07/09/25	07/09/25	
			Pesticide-TCL	8081B	07/09/25	07/09/25	
					07/07/25		07/08/25
Q2529-08	TP-89	SOIL	Diesel Range Organics	8015D	07/16/25	07/16/25	
			Gasoline Range Organics	8015D		07/10/25	
			PCB	8082A	07/09/25	07/09/25	
			Pesticide-TCL	8081B	07/09/25	07/09/25	
Q2529-09	TP-33	SOIL			07/08/25		07/08/25
			Diesel Range Organics	8015D	07/16/25	07/16/25	
			Gasoline Range Organics	8015D		07/11/25	
			PCB	8082A	07/09/25	07/09/25	
Q2529-10	TP-30	SOIL	Pesticide-TCL	8081B	07/09/25	07/09/25	
					07/08/25		07/08/25
			Diesel Range Organics	8015D	07/16/25	07/16/25	
			Gasoline Range Organics	8015D		07/10/25	
			PCB	8082A	07/09/25	07/09/25	
			Pesticide-TCL	8081B	07/09/25	07/09/25	



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.9
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	Diesel Range Organics
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016305.D	1	07/16/25 10:00	07/16/25 15:17	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10200		186	1830	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.4		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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.7
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016306.D	1	07/16/25 10:00	07/16/25 15:47	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	24100		186	1830	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.5		37 - 130	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.6
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016307.D	1	07/16/25 10:00	07/16/25 16:17	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8560		186	1840	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.8		37 - 130	59%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	83.7
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	Diesel Range Organics
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016165.D	1	07/16/25 10:00	07/16/25 14:18	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4190		202	1990	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.8		37 - 130	59%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86.9
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016166.D	1	07/16/25 10:00	07/16/25 14:47	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4130		194	1910	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.5		37 - 130	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	95.6
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	Diesel Range Organics
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016183.D	2	07/16/25 10:00	07/17/25 9:58	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	38600		353	3480	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	7.78		37 - 130	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	Diesel Range Organics
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016168.D	1	07/16/25 10:00	07/16/25 15:47	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	30300		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.5		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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.1
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016169.D	1	07/16/25 10:00	07/16/25 16:17	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	5490		187	1850	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.1		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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.5
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016172.D	1	07/16/25 10:00	07/16/25 18:16	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2700		186	1840	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.9		37 - 130	54%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.4
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016173.D	1	07/16/25 10:00	07/16/25 18:46	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4180		185	1820	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.2		37 - 130	61%	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

SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No.: Q2529

CLIENT ID	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF016162.D	98				0
PIBLK-FF016170.D	92				0
PIBLK-FF016177.D	101				0
PIBLK-FF016180.D	112				0
PIBLK-FF016184.D	111				0
PIBLK-FG016300.D	91				0
PIBLK-FG016308.D	93				0
PIBLK-FG016313.D	93				0
PB168878BL	88				0
PB168878BS	85				0
TP-91	57				0
TP-80	78				0
TP-79	59				0
TP-95	59				0
TP-98	58				0
TP-102	78				0
TP-101	57				0
TP-89	51				0
TP-33	54				0
TP-30	61				0
TP-23-99MS	62				0
TP-23-99MSD	59				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

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>CDM Smith</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2529</u>
Client Sample ID :	<u>TP-23-99MS</u>	Datafile:	<u>FG016311.D</u>

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7793	4230	10586	82%		68-131

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>CDM Smith</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2529</u>
Client Sample ID :	<u>TP-23-99MSD</u>	Datafile:	<u>FG016312.D</u>

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7801	4230	10604	82%		68-131

MS/MSD % Recovery RPD : 0.2

SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI

Lab Name:	<u>Alliance</u>	Client:	<u>CDM Smith</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2529</u>
Client Sample ID :	<u>PB168878BS</u>	Datafile:	<u>FG016304.D</u>

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
DRO	6660	0	5498	83	68-131

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB168878BL

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2529

Lab File ID: FG016303.D

Lab Sample ID: PB168878BL

Instrument ID: FG

Date Extracted: 07/16/2025

Matrix: (soil/water) Soil

Date Analyzed: 07/16/25

Level: (low/med) low

Time Analyzed: 14:18

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TP-95	Q2529-04	FF016165.D	07/16/25
TP-98	Q2529-05	FF016166.D	07/16/25
TP-101	Q2529-07	FF016168.D	07/16/25
TP-89	Q2529-08	FF016169.D	07/16/25
TP-33	Q2529-09	FF016172.D	07/16/25
TP-30	Q2529-10	FF016173.D	07/16/25
TP-102	Q2529-06	FF016183.D	07/17/25
PB168878BS	PB168878BS	FG016304.D	07/16/25
TP-91	Q2529-01	FG016305.D	07/16/25
TP-80	Q2529-02	FG016306.D	07/16/25
TP-79	Q2529-03	FG016307.D	07/16/25
TP-23-99MS	Q2543-04MS	FG016311.D	07/16/25
TP-23-99MSD	Q2543-04MSD	FG016312.D	07/16/25

COMMENTS: _____



QC SAMPLE DATA

A

B

C

D

E

F

G

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168878BL	SDG No.:	Q2529
Lab Sample ID:	PB168878BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016303.D	1	07/16/25 10:00	07/16/25 14:18	PB168878

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	17.6		37 - 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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FF016162.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FF016162.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016162.D	1		07/16/25	FF071625

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	19.6		29 - 130	98%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FF016170.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FF016170.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016170.D	1		07/16/25	FF071625

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	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FF016177.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FF016177.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016177.D	1		07/16/25	FF071625

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	20.2		29 - 130	101%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/17/25
Project:	South River WM Replacement	Date Received:	07/17/25
Client Sample ID:	PIBLK-FF016180.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FF016180.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016180.D	1		07/17/25	FF071725

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	22.3		29 - 130	112%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/17/25
Project:	South River WM Replacement	Date Received:	07/17/25
Client Sample ID:	PIBLK-FF016184.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FF016184.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016184.D	1		07/17/25	FF071725

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	22.3		29 - 130	111%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FG016300.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FG016300.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016300.D	1		07/16/25	FG071625

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	18.3		29 - 130	91%	SPK: 20

Comments:

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FG016308.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FG016308.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016308.D	1		07/16/25	FG071625

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	18.7		29 - 130	93%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	07/16/25
Project:	South River WM Replacement	Date Received:	07/16/25
Client Sample ID:	PIBLK-FG016313.D	SDG No.:	Q2529
Lab Sample ID:	I.BLK-FG016313.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016313.D	1		07/16/25	FG071625

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	18.6		29 - 130	93%	SPK: 20

Comments:

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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168878BS	SDG No.:	Q2529
Lab Sample ID:	PB168878BS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016304.D	1	07/16/25 10:00	07/16/25 14:47	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	5500		169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	17.0		37 - 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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99MS	SDG No.:	Q2529
Lab Sample ID:	Q2543-04MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.4
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016311.D	1	07/16/25 10:00	07/16/25 18:46	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10600		198	1950	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.3		37 - 130	62%	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99MSD	SDG No.:	Q2529
Lab Sample ID:	Q2543-04MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.4
Sample Wt/Vol:	30.02 Units: g	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016312.D	1	07/16/25 10:00	07/16/25 19:16	PB168878

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10600		198	1950	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.8		37 - 130	59%	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

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2529

Calibration Sequence : FF071025		Test : Diesel Range Organics	
Concentration (PPM)	Area Count	Reference Factor	File ID
1000	104463293	104463	FF016130.D
500	56348110	112696	FF016131.D
200	23430036	117150	FF016132.D
100	12876046	128760	FF016133.D
50	5695447	113909	FF016134.D
AVG RF : 115396		% RSD : 7.638	AVG RT : 15.1002

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance Contract: CAMP02
 ProjectID: South River WM Replacement
 Lab Code: ACE SDG No.: Q2529

Calibration Sequence : FG070925		Test : Diesel Range Organics	
Concentration (PPM)	Area Count	Reference Factor	File ID
1000	107457449	107457	FG016264.D
500	53927299	107855	FG016265.D
200	23004292	115021	FG016266.D
100	12319443	123194	FG016267.D
50	6076250	121525	FG016268.D
AVG RF : 115010		% RSD : 6.414	AVG RT : 15.201

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.: Q2529
DataFile: FF016163.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	64445768	128892	115396	11.695

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.: Q2529
DataFile: FF016171.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	57646303	115293	115396	0.089

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.: Q2529
 DataFile: FF016178.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	63725868	127452	115396	10.448

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.: Q2529
DataFile: FF016181.D Analyst Name: YP\AJ Analyst Date: 07-17-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	67327496	134655	115396	16.689

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.: Q2529
DataFile: FF016185.D Analyst Name: YP\AJ Analyst Date: 07-17-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	57422086	114844	115396	0.478

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.: Q2529
DataFile: FG016301.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	54750916	109502	115010	4.789

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.: Q2529
DataFile: FG016309.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	56207865	112416	115010	2.255

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.: Q2529
DataFile: FG016314.D Analyst Name: YP\AJ Analyst Date: 07-16-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	56814336	113629	115010	1.201

Analytical Sequence

Client: CDM Smith

SDG No.: Q2529

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 15.1002					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	16 Jul 2025 12:08	FF016162.D	15.097	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 12:40	FF016163.D	15.100	
TP-95	Q2529-04	16 Jul 2025 14:18	FF016165.D	15.096	
TP-98	Q2529-05	16 Jul 2025 14:47	FF016166.D	15.096	
TP-101	Q2529-07	16 Jul 2025 15:47	FF016168.D	15.097	
TP-89	Q2529-08	16 Jul 2025 16:17	FF016169.D	15.095	
PIBLK02	LBLK02	16 Jul 2025 16:47	FF016170.D	15.096	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 17:16	FF016171.D	15.097	
TP-33	Q2529-09	16 Jul 2025 18:16	FF016172.D	15.094	
TP-30	Q2529-10	16 Jul 2025 18:46	FF016173.D	15.094	
PIBLK03	LBLK03	16 Jul 2025 20:45	FF016177.D	15.093	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 22:44	FF016178.D	15.094	
PIBLK04	LBLK04	17 Jul 2025 08:28	FF016180.D	15.090	
50 PPM TRPH STD	50 PPM TRPH STD	17 Jul 2025 08:58	FF016181.D	15.093	
TP-102	Q2529-06	17 Jul 2025 09:58	FF016183.D	15.089	
PIBLK05	LBLK05	17 Jul 2025 10:28	FF016184.D	15.092	
50 PPM TRPH STD	50 PPM TRPH STD	17 Jul 2025 11:59	FF016185.D	15.092	
PIBLK06	LBLK06	16 Jul 2025 12:08	FG016300.D	15.201	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 12:40	FG016301.D	15.204	
PB168878BL	PB168878BL	16 Jul 2025 14:18	FG016303.D	15.198	
PB168878BS	PB168878BS	16 Jul 2025 14:47	FG016304.D	15.199	
TP-91	Q2529-01	16 Jul 2025 15:17	FG016305.D	15.199	
TP-80	Q2529-02	16 Jul 2025 15:47	FG016306.D	15.200	
TP-79	Q2529-03	16 Jul 2025 16:17	FG016307.D	15.201	
PIBLK07	LBLK07	16 Jul 2025 16:47	FG016308.D	15.201	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 17:16	FG016309.D	15.203	
TP-23-99MS	Q2543-04MS	16 Jul 2025 18:46	FG016311.D	15.199	
TP-23-99MSD	Q2543-04MSD	16 Jul 2025 19:16	FG016312.D	15.199	
PIBLK08	LBLK08	16 Jul 2025 19:46	FG016313.D	15.198	
50 PPM TRPH STD	50 PPM TRPH STD	16 Jul 2025 20:45	FG016314.D	15.201	

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

QC Limits
(± 0.10 minutes)

Lower Limit
15.101

Upper Limits
15.301

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071625\
Data File : FF016167.D
Signal(s) : FID2B.ch
Acq On : 16 Jul 2025 15:17
Operator : YP\AJ
Sample : Q2529-06
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-102

Integration File: autoint1.e
Quant Time: Jul 17 03:37:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 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...	15.097	1648304	16.927 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

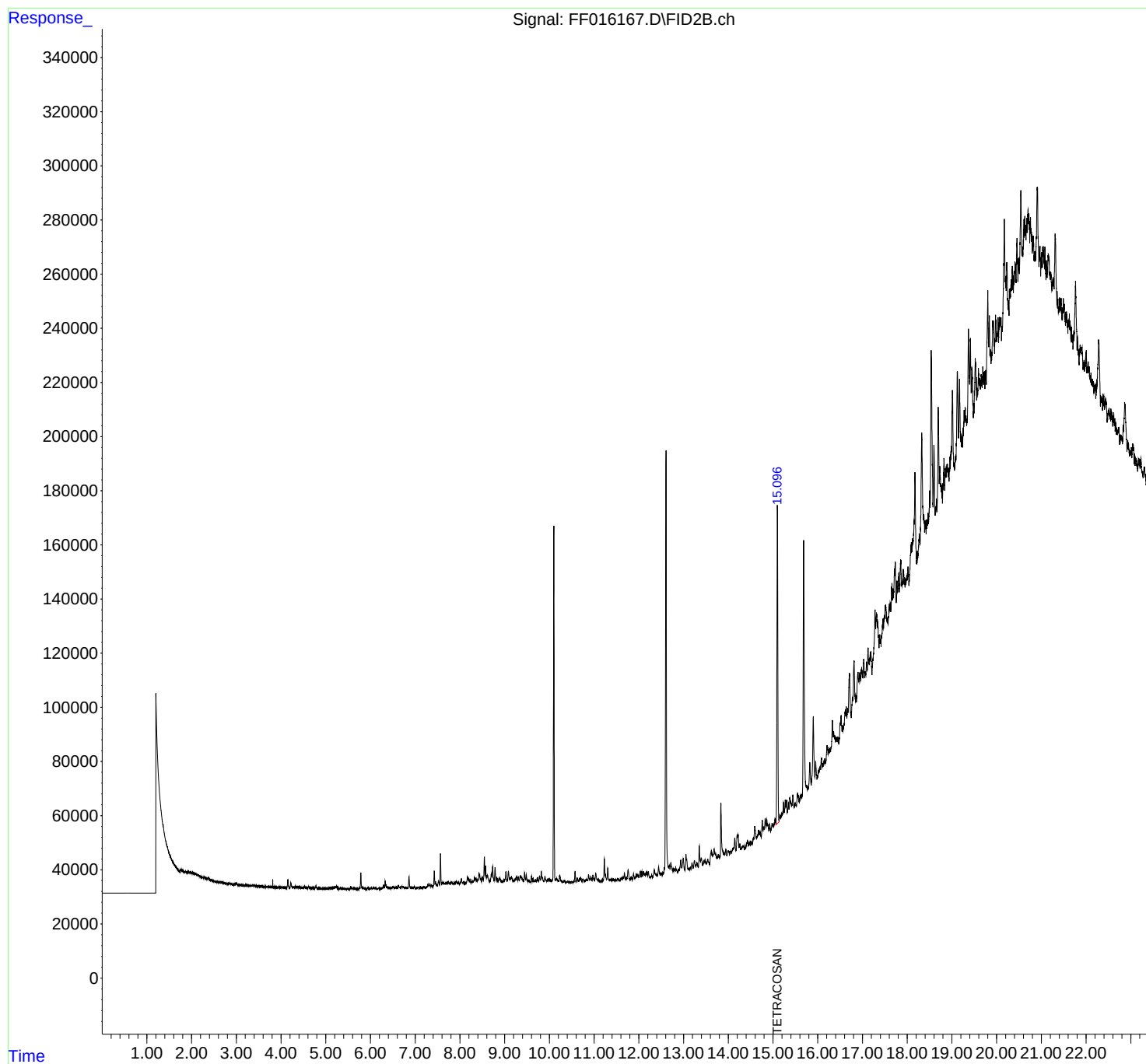
(m)=manual int.

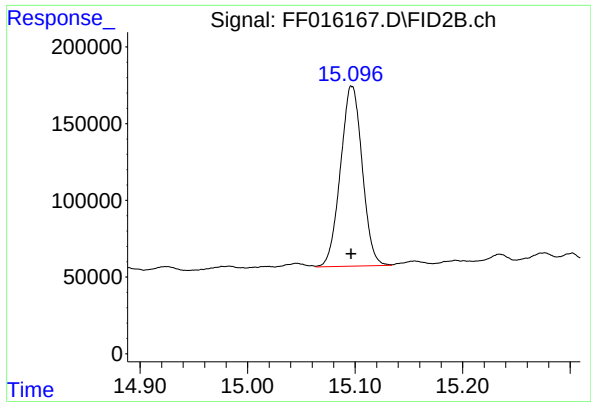
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071625\
Data File : FF016167.D
Signal(s) : FID2B.ch
Acq On : 16 Jul 2025 15:17
Operator : YP\AJ
Sample : Q2529-06
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-102

Integration File: autoint1.e
Quant Time: Jul 17 03:37:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 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.: 15.097 min
Delta R.T.: 0.000 min
Response: 1648304
Conc: 16.93 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-102

11

A

B

C

D

E

F

G

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071625\
 Data File : FF016167.D
 Signal(s) : FID2B.ch
 Acq On : 16 Jul 2025 15:17
 Sample : Q2529-06
 Misc :
 ALS Vial : 73 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
 Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.329	4.297	4.349	HH	2339	67130	1.49%	0.051%
2	4.359	4.349	4.369	HH	2243	25819	0.57%	0.020%
3	4.381	4.369	4.398	HH	2336	38842	0.86%	0.029%
4	4.409	4.398	4.450	HH	2121	64124	1.42%	0.048%
5	4.485	4.450	4.505	HH	2015	63846	1.42%	0.048%
6	4.525	4.505	4.545	HH	2334	50062	1.11%	0.038%
7	4.565	4.545	4.593	HH	2144	55669	1.23%	0.042%
8	4.619	4.593	4.640	HH	2438	57848	1.28%	0.044%
9	4.653	4.640	4.684	HH	2009	50671	1.12%	0.038%
10	4.691	4.684	4.719	HH	1941	37762	0.84%	0.029%
11	4.736	4.719	4.759	HH	1842	42365	0.94%	0.032%
12	4.779	4.759	4.821	HH	2829	74064	1.64%	0.056%
13	4.847	4.821	4.866	HH	2015	49215	1.09%	0.037%
14	4.868	4.866	4.924	HH	1842	57093	1.27%	0.043%
15	4.927	4.924	4.937	HH	1731	13205	0.29%	0.010%
16	4.950	4.937	4.990	HH	1894	53986	1.20%	0.041%
17	4.994	4.990	5.008	HH	1693	17785	0.39%	0.013%
18	5.016	5.008	5.021	HH	1702	13034	0.29%	0.010%
19	5.025	5.021	5.041	HH	1717	18916	0.42%	0.014%
20	5.064	5.041	5.069	HH	1801	28531	0.63%	0.022%
21	5.082	5.069	5.107	HH	1776	40084	0.89%	0.030%
22	5.127	5.107	5.142	HH	1974	39533	0.88%	0.030%
23	5.246	5.142	5.262	HH	2510	148832	3.30%	0.112%
24	5.271	5.262	5.305	HH	1918	44222	0.98%	0.033%
25	5.329	5.305	5.361	HH	1996	57545	1.28%	0.043%
26	5.369	5.361	5.388	HH	1582	24682	0.55%	0.019%
27	5.402	5.388	5.421	HH	1735	32504	0.72%	0.025%
28	5.423	5.421	5.426	HH	1666	5235	0.12%	0.004%
29	5.432	5.426	5.447	HH	1675	20364	0.45%	0.015%
30	5.451	5.447	5.484	HH	1527	32111	0.71%	0.024%
31	5.493	5.484	5.522	HH	1512	33125	0.73%	0.025%
32	5.559	5.522	5.586	HH	2402	67020	1.49%	0.051%
33	5.596	5.586	5.610	HH	1735	23618	0.52%	0.018%
34	5.628	5.610	5.680	HH	1880	68316	1.51%	0.052%
35	5.687	5.680	5.707	HH	1569	25249	0.56%	0.019%
36	5.719	5.707	5.734	HH	1494	23359	0.52%	0.018%

Page 1

					rteres			
37	5.757	5.734	5.764	HH	1864	30349	0.67%	0.023%
38	5.784	5.764	5.819	HH	7514	114008	2.53%	0.086%
39	5.830	5.819	5.847	HH	2162	31862	0.71%	0.024%
40	5.852	5.847	5.868	HH	1733	20935	0.46%	0.016%
41	5.871	5.868	5.915	HH	1678	43879	0.97%	0.033%
42	5.942	5.915	5.968	HH	2078	54695	1.21%	0.041%
43	5.999	5.968	6.003	HH	1682	34173	0.76%	0.026%
44	6.018	6.003	6.037	HH	1878	34325	0.76%	0.026%
45	6.046	6.037	6.051	HH	1727	14095	0.31%	0.011%
46	6.070	6.051	6.086	HH	1994	38488	0.85%	0.029%
47	6.111	6.086	6.150	HH	1925	65706	1.46%	0.050%
48	6.156	6.150	6.164	HH	1617	12994	0.29%	0.010%
49	6.168	6.164	6.172	HH	1625	7746	0.17%	0.006%
50	6.179	6.172	6.199	HH	1765	26992	0.60%	0.020%
51	6.231	6.199	6.254	HH	1748	52993	1.17%	0.040%
52	6.290	6.254	6.309	HH	2800	69317	1.54%	0.052%
53	6.328	6.309	6.388	HH	4444	126596	2.81%	0.096%
54	6.394	6.388	6.414	HH	2129	31143	0.69%	0.024%
55	6.431	6.414	6.457	HH	2124	48044	1.07%	0.036%
56	6.476	6.457	6.487	HH	2190	35962	0.80%	0.027%
57	6.501	6.487	6.544	HH	2292	68496	1.52%	0.052%
58	6.583	6.544	6.602	HH	2157	67671	1.50%	0.051%
59	6.624	6.602	6.649	HH	2912	64765	1.44%	0.049%
60	6.654	6.649	6.659	HH	2015	11899	0.26%	0.009%
61	6.670	6.659	6.676	HH	2010	19809	0.44%	0.015%
62	6.705	6.676	6.719	HH	2491	58044	1.29%	0.044%
63	6.735	6.719	6.766	HH	2386	59057	1.31%	0.045%
64	6.785	6.766	6.809	HH	2123	50098	1.11%	0.038%
65	6.814	6.809	6.819	HH	1757	10360	0.23%	0.008%
66	6.860	6.819	6.891	HH	6100	124419	2.76%	0.094%
67	6.899	6.891	6.929	HH	2053	44588	0.99%	0.034%
68	6.939	6.929	6.957	HH	2111	34086	0.76%	0.026%
69	6.982	6.957	7.008	HH	2434	61358	1.36%	0.046%
70	7.019	7.008	7.027	HH	1736	19179	0.43%	0.014%
71	7.052	7.027	7.089	HH	2098	71213	1.58%	0.054%
72	7.112	7.089	7.144	HH	2204	65465	1.45%	0.049%
73	7.155	7.144	7.173	HH	1951	32962	0.73%	0.025%
74	7.195	7.173	7.215	HH	2420	53296	1.18%	0.040%
75	7.225	7.215	7.241	HH	2013	30570	0.68%	0.023%
76	7.282	7.241	7.309	HH	3319	105288	2.33%	0.080%
77	7.327	7.309	7.347	HH	3430	66591	1.48%	0.050%
78	7.363	7.347	7.394	HH	2843	71107	1.58%	0.054%
79	7.426	7.394	7.442	HH	8140	131548	2.92%	0.099%
80	7.454	7.442	7.473	HH	4188	67513	1.50%	0.051%
81	7.477	7.473	7.491	HH	2910	30555	0.68%	0.023%
82	7.521	7.491	7.543	HH	4435	112813	2.50%	0.085%
83	7.564	7.543	7.590	HH	14520	199693	4.43%	0.151%
84	7.607	7.590	7.626	HH	3917	76923	1.71%	0.058%
85	7.638	7.626	7.669	HH	3748	91653	2.03%	0.069%
86	7.689	7.669	7.697	HH	3689	58924	1.31%	0.045%
87	7.739	7.697	7.771	HH	4080	164186	3.64%	0.124%
88	7.793	7.771	7.812	HH	3858	91972	2.04%	0.069%
89	7.818	7.812	7.844	HH	3877	70465	1.56%	0.053%

rteres								
90	7.870	7.844	7.898	HH	3831	117575	2.61%	0.089%
91	7.920	7.898	7.947	HH	4297	114089	2.53%	0.086%
92	7.969	7.947	7.986	HH	3848	85282	1.89%	0.064%
93	8.030	7.986	8.060	HH	5203	181847	4.03%	0.137%
94	8.076	8.060	8.102	HH	4088	96354	2.14%	0.073%
95	8.120	8.102	8.138	HH	3756	78370	1.74%	0.059%
96	8.168	8.138	8.186	HH	5772	137851	3.06%	0.104%
97	8.196	8.186	8.212	HH	5106	74957	1.66%	0.057%
98	8.223	8.212	8.251	HH	5031	102325	2.27%	0.077%
99	8.269	8.251	8.290	HH	4734	99105	2.20%	0.075%
100	8.327	8.290	8.343	HH	5582	150196	3.33%	0.113%
101	8.357	8.343	8.384	HH	5312	118221	2.62%	0.089%
102	8.398	8.384	8.411	HH	5289	77590	1.72%	0.059%
103	8.425	8.411	8.434	HH	7447	91020	2.02%	0.069%
104	8.440	8.434	8.457	HH	6883	82981	1.84%	0.063%
105	8.467	8.457	8.481	HH	5384	70374	1.56%	0.053%
106	8.503	8.481	8.524	HH	5732	130881	2.90%	0.099%
107	8.546	8.524	8.561	HH	13308	197778	4.38%	0.149%
108	8.574	8.561	8.591	HH	10080	140777	3.12%	0.106%
109	8.618	8.591	8.667	HH	6537	248485	5.51%	0.188%
110	8.700	8.667	8.712	HH	6914	149561	3.32%	0.113%
111	8.731	8.712	8.763	HH	9866	213729	4.74%	0.161%
112	8.785	8.763	8.807	HH	9375	171473	3.80%	0.130%
113	8.822	8.807	8.836	HH	5942	89277	1.98%	0.067%
114	8.844	8.836	8.857	HH	4859	59696	1.32%	0.045%
115	8.891	8.857	8.942	HH	5862	242899	5.38%	0.184%
116	8.947	8.942	8.957	HH	4252	38685	0.86%	0.029%
117	8.983	8.957	9.001	HH	4811	117756	2.61%	0.089%
118	9.030	9.001	9.061	HH	7882	203459	4.51%	0.154%
119	9.083	9.061	9.111	HH	7954	185627	4.11%	0.140%
120	9.127	9.111	9.135	HH	5344	75363	1.67%	0.057%
121	9.151	9.135	9.181	HH	5982	148046	3.28%	0.112%
122	9.195	9.181	9.208	HH	4769	72793	1.61%	0.055%
123	9.273	9.208	9.292	HH	6276	264751	5.87%	0.200%
124	9.305	9.292	9.325	HH	5829	102609	2.27%	0.078%
125	9.347	9.325	9.357	HH	6141	105565	2.34%	0.080%
126	9.365	9.357	9.388	HH	6112	105053	2.33%	0.079%
127	9.394	9.388	9.410	HH	5170	64701	1.43%	0.049%
128	9.418	9.410	9.427	HH	4633	44143	0.98%	0.033%
129	9.446	9.427	9.469	HH	7605	149029	3.30%	0.113%
130	9.484	9.469	9.527	HH	6754	181289	4.02%	0.137%
131	9.540	9.527	9.568	HH	4694	107720	2.39%	0.081%
132	9.600	9.568	9.618	HH	6361	147345	3.27%	0.111%
133	9.633	9.618	9.647	HH	5334	83395	1.85%	0.063%
134	9.684	9.647	9.703	HH	4999	147692	3.27%	0.112%
135	9.737	9.703	9.756	HH	5811	154743	3.43%	0.117%
136	9.779	9.756	9.801	HH	6285	138276	3.07%	0.104%
137	9.820	9.801	9.836	HH	7904	134874	2.99%	0.102%
138	9.844	9.836	9.877	HH	5838	119607	2.65%	0.090%
139	9.901	9.877	9.934	HH	6119	173595	3.85%	0.131%
140	9.939	9.934	9.946	HH	4458	31470	0.70%	0.024%
141	9.967	9.946	9.994	HH	5230	137965	3.06%	0.104%

rteres								
142	10.004	9.994	10.017	HH	4686	65576	1.45%	0.050%
143	10.027	10.017	10.047	HH	4954	82682	1.83%	0.062%
144	10.099	10.047	10.131	HH	135552	1576003	34.94%	1.191%
145	10.148	10.131	10.156	HH	5267	77547	1.72%	0.059%
146	10.162	10.156	10.187	HH	5209	90664	2.01%	0.069%
147	10.196	10.187	10.212	HH	4514	65410	1.45%	0.049%
148	10.232	10.212	10.289	HH	6640	228931	5.07%	0.173%
149	10.309	10.289	10.319	HH	4216	74329	1.65%	0.056%
150	10.337	10.319	10.374	HH	4642	140832	3.12%	0.106%
151	10.407	10.374	10.436	HH	4410	150836	3.34%	0.114%
152	10.454	10.436	10.466	HH	4060	72370	1.60%	0.055%
153	10.471	10.466	10.491	HH	3984	59118	1.31%	0.045%
154	10.507	10.491	10.527	HH	4168	87162	1.93%	0.066%
155	10.540	10.527	10.547	HH	4178	48686	1.08%	0.037%
156	10.573	10.547	10.599	HH	7979	172352	3.82%	0.130%
157	10.621	10.599	10.643	HH	5487	126824	2.81%	0.096%
158	10.677	10.643	10.692	HH	5468	142684	3.16%	0.108%
159	10.706	10.692	10.730	HH	5442	112455	2.49%	0.085%
160	10.749	10.730	10.801	HH	5126	194279	4.31%	0.147%
161	10.822	10.801	10.858	HH	5040	162168	3.59%	0.123%
162	10.876	10.858	10.910	HH	6660	173685	3.85%	0.131%
163	10.926	10.910	10.944	HH	6043	108017	2.39%	0.082%
164	10.973	10.944	11.009	HH	6684	208273	4.62%	0.157%
165	11.035	11.009	11.065	HH	7326	199128	4.41%	0.150%
166	11.073	11.065	11.087	HH	4956	64000	1.42%	0.048%
167	11.107	11.087	11.148	HH	4933	166208	3.68%	0.126%
168	11.155	11.148	11.160	HH	4306	31779	0.70%	0.024%
169	11.193	11.160	11.205	HH	5003	124492	2.76%	0.094%
170	11.228	11.205	11.245	HH	12575	197300	4.37%	0.149%
171	11.251	11.245	11.281	HH	6738	126139	2.80%	0.095%
172	11.304	11.281	11.336	HH	9283	210325	4.66%	0.159%
173	11.366	11.336	11.385	HH	4987	142120	3.15%	0.107%
174	11.429	11.385	11.466	HH	5001	232184	5.15%	0.175%
175	11.485	11.466	11.499	HH	4895	94571	2.10%	0.071%
176	11.515	11.499	11.519	HH	4945	58186	1.29%	0.044%
177	11.538	11.519	11.566	HH	5281	139321	3.09%	0.105%
178	11.608	11.566	11.631	HH	5410	197061	4.37%	0.149%
179	11.649	11.631	11.660	HH	5843	98755	2.19%	0.075%
180	11.678	11.660	11.700	HH	7369	146060	3.24%	0.110%
181	11.704	11.700	11.709	HH	5281	28259	0.63%	0.021%
182	11.724	11.709	11.736	HH	5511	87196	1.93%	0.066%
183	11.759	11.736	11.799	HH	8597	251294	5.57%	0.190%
184	11.833	11.799	11.852	HH	5619	169428	3.76%	0.128%
185	11.882	11.852	11.902	HH	7009	176349	3.91%	0.133%
186	11.941	11.902	11.967	HH	7211	243575	5.40%	0.184%
187	11.975	11.967	12.004	HH	6435	136277	3.02%	0.103%
188	12.032	12.004	12.049	HH	8060	185536	4.11%	0.140%
189	12.066	12.049	12.083	HH	7976	142691	3.16%	0.108%
190	12.100	12.083	12.121	HH	7780	159587	3.54%	0.121%
191	12.131	12.121	12.143	HH	7100	92812	2.06%	0.070%
192	12.161	12.143	12.169	HH	7344	110156	2.44%	0.083%
193	12.181	12.169	12.198	HH	7807	123805	2.74%	0.094%
194	12.214	12.198	12.246	HH	7854	193131	4.28%	0.146%

					rteres				
195	12.254	12.246	12.264	HH	5875	62613	1.39%	0.047%	
196	12.288	12.264	12.306	HH	6455	151900	3.37%	0.115%	
197	12.348	12.306	12.382	HH	8579	328234	7.28%	0.248%	
198	12.395	12.382	12.412	HH	6978	119261	2.64%	0.090%	
199	12.442	12.412	12.482	HH	9745	327925	7.27%	0.248%	
200	12.490	12.482	12.493	HH	7064	46745	1.04%	0.035%	
201	12.504	12.493	12.524	HH	7454	128767	2.85%	0.097%	
202	12.539	12.524	12.548	HH	7342	103095	2.29%	0.078%	
203	12.571	12.548	12.579	HH	9455	155821	3.45%	0.118%	
204	12.608	12.579	12.666	HH	162577	2438158	54.05%	1.842%	
205	12.682	12.666	12.697	HH	10223	179454	3.98%	0.136%	
206	12.715	12.697	12.751	HH	11128	316685	7.02%	0.239%	
207	12.760	12.751	12.764	HH	8729	68347	1.52%	0.052%	
208	12.768	12.764	12.775	HH	8699	55376	1.23%	0.042%	
209	12.791	12.775	12.810	HH	8914	182138	4.04%	0.138%	
210	12.824	12.810	12.866	HH	9239	281138	6.23%	0.212%	
211	12.887	12.866	12.902	HH	8854	178797	3.96%	0.135%	
212	12.936	12.902	12.957	HH	12054	336449	7.46%	0.254%	
213	12.992	12.957	13.030	HH	12653	450264	9.98%	0.340%	
214	13.055	13.030	13.104	HH	14246	484966	10.75%	0.366%	
215	13.121	13.104	13.125	HH	8950	113370	2.51%	0.086%	
216	13.132	13.125	13.137	HH	8927	64138	1.42%	0.048%	
217	13.155	13.137	13.167	HH	9475	165526	3.67%	0.125%	
218	13.187	13.167	13.210	HH	10961	255517	5.66%	0.193%	
219	13.243	13.210	13.272	HH	11989	392087	8.69%	0.296%	
220	13.294	13.272	13.327	HH	11010	336537	7.46%	0.254%	
221	13.352	13.327	13.378	HH	17335	402797	8.93%	0.304%	
222	13.394	13.378	13.429	HH	12992	360630	7.99%	0.272%	
223	13.448	13.429	13.453	HH	11734	154943	3.43%	0.117%	
224	13.456	13.453	13.464	HH	11709	80244	1.78%	0.061%	
225	13.465	13.464	13.473	HH	11669	59312	1.31%	0.045%	
226	13.483	13.473	13.509	HH	12181	249091	5.52%	0.188%	
227	13.542	13.509	13.580	HH	12512	485249	10.76%	0.367%	
228	13.622	13.580	13.646	HH	15634	541464	12.00%	0.409%	
229	13.683	13.646	13.742	HH	16327	838220	18.58%	0.633%	
230	13.748	13.742	13.759	HH	13345	132196	2.93%	0.100%	
231	13.778	13.759	13.801	HH	14256	342785	7.60%	0.259%	
232	13.807	13.801	13.812	HH	13426	90383	2.00%	0.068%	
233	13.835	13.812	13.891	HH	33181	907390	20.12%	0.686%	
234	13.907	13.891	13.920	HH	14854	247257	5.48%	0.187%	
235	13.944	13.920	13.970	HH	16096	450653	9.99%	0.340%	
236	13.989	13.970	14.001	HH	15604	272296	6.04%	0.206%	
237	14.005	14.001	14.031	HH	15578	271167	6.01%	0.205%	
238	14.053	14.031	14.061	HH	15570	277304	6.15%	0.210%	
239	14.065	14.061	14.077	HH	15382	137823	3.06%	0.104%	
240	14.096	14.077	14.101	HH	16476	233468	5.18%	0.176%	
241	14.146	14.101	14.169	HH	20137	704653	15.62%	0.532%	
242	14.198	14.169	14.208	HH	21470	439946	9.75%	0.332%	
243	14.219	14.208	14.240	HH	21412	379313	8.41%	0.287%	
244	14.259	14.240	14.280	HH	18109	419807	9.31%	0.317%	
245	14.324	14.280	14.367	HH	17334	879838	19.50%	0.665%	
246	14.430	14.367	14.450	HH	19331	881603	19.54%	0.666%	

rteres								
247	14.463	14.450	14.473	HH	18433	249012	5.52%	0.188%
248	14.495	14.473	14.511	HH	19121	426806	9.46%	0.322%
249	14.530	14.511	14.536	HH	18663	276323	6.13%	0.209%
250	14.564	14.536	14.569	HH	20306	384645	8.53%	0.291%
251	14.591	14.569	14.631	HH	24631	816529	18.10%	0.617%
252	14.676	14.631	14.694	HH	23325	820633	18.19%	0.620%
253	14.709	14.694	14.735	HH	22811	533303	11.82%	0.403%
254	14.760	14.735	14.775	HH	26859	570388	12.64%	0.431%
255	14.792	14.775	14.802	HH	24497	397914	8.82%	0.301%
256	14.826	14.802	14.844	HH	27458	630627	13.98%	0.476%
257	14.861	14.844	14.877	HH	27061	521220	11.55%	0.394%
258	14.882	14.877	14.904	HH	25143	394106	8.74%	0.298%
259	14.924	14.904	14.945	HH	25403	590521	13.09%	0.446%
260	14.983	14.945	14.999	HH	25728	791750	17.55%	0.598%
261	15.019	14.999	15.025	HH	25537	399920	8.87%	0.302%
262	15.046	15.025	15.064	HH	27563	608401	13.49%	0.460%
263	15.097	15.064	15.134	HH	142804	2732698	60.58%	2.065%
264	15.156	15.134	15.173	HH	29189	648310	14.37%	0.490%
265	15.194	15.173	15.210	HH	29553	638451	14.15%	0.482%
266	15.234	15.210	15.251	HH	33498	763957	16.94%	0.577%
267	15.276	15.251	15.288	HH	34388	723370	16.04%	0.547%
268	15.302	15.288	15.323	HH	34374	674694	14.96%	0.510%
269	15.343	15.323	15.357	HH	33333	650422	14.42%	0.491%
270	15.376	15.357	15.413	HH	35152	1111458	24.64%	0.840%
271	15.421	15.413	15.425	HH	32592	230121	5.10%	0.174%
272	15.442	15.425	15.465	HH	36302	817279	18.12%	0.617%
273	15.486	15.465	15.494	HH	33414	572022	12.68%	0.432%
274	15.502	15.494	15.524	HH	33102	585149	12.97%	0.442%
275	15.552	15.524	15.592	HH	37100	1424676	31.58%	1.076%
276	15.614	15.592	15.627	HH	36069	731983	16.23%	0.553%
277	15.640	15.627	15.644	HH	35591	369140	8.18%	0.279%
278	15.684	15.644	15.742	HH	130309	3701130	82.05%	2.796%
279	15.756	15.742	15.770	HH	39878	647594	14.36%	0.489%
280	15.783	15.770	15.788	HH	39161	419365	9.30%	0.317%
281	15.822	15.788	15.854	HH	48224	1684475	37.34%	1.273%
282	15.900	15.854	15.934	HH	65375	2396988	53.14%	1.811%
283	15.954	15.934	15.984	HH	48525	1350997	29.95%	1.021%
284	15.993	15.984	15.998	HH	43522	357740	7.93%	0.270%
285	16.023	15.998	16.028	HH	45198	793116	17.58%	0.599%
286	16.054	16.028	16.062	HH	46732	953696	21.14%	0.721%
287	16.084	16.062	16.099	HH	49918	1055151	23.39%	0.797%
288	16.114	16.099	16.119	HH	47817	561780	12.45%	0.424%
289	16.151	16.119	16.164	HH	49573	1320096	29.26%	0.997%
290	16.210	16.164	16.231	HH	54428	2035849	45.13%	1.538%
291	16.248	16.231	16.261	HH	53717	936913	20.77%	0.708%
292	16.268	16.261	16.287	HH	53268	852582	18.90%	0.644%
293	16.327	16.287	16.343	HH	63704	1935089	42.90%	1.462%
294	16.356	16.343	16.396	HH	59711	1819027	40.32%	1.374%
295	16.405	16.396	16.428	HH	57325	1094901	24.27%	0.827%
296	16.440	16.428	16.446	HH	57601	628675	13.94%	0.475%
297	16.449	16.446	16.461	HH	56960	487499	10.81%	0.368%
298	16.466	16.461	16.475	HH	57402	480616	10.65%	0.363%
299	16.496	16.475	16.503	HH	62731	983103	21.79%	0.743%

rteres								
300	16.523	16.503	16.542	HH	65478	1491853	33.07%	1.127%
301	16.554	16.542	16.561	HH	61854	672052	14.90%	0.508%
302	16.584	16.561	16.589	HH	62353	1026173	22.75%	0.775%
303	16.618	16.589	16.624	HH	67348	1394255	30.91%	1.053%
304	16.637	16.624	16.652	HH	68824	1116337	24.75%	0.843%
305	16.666	16.652	16.676	HH	68132	953492	21.14%	0.720%
306	16.707	16.676	16.749	HH	81222	3191206	70.74%	2.411%
307	16.774	16.749	16.779	HH	72194	1243526	27.57%	0.940%
308	16.812	16.779	16.852	HH	85811	3335236	73.94%	2.520%
309	16.856	16.852	16.864	HH	71869	495570	10.99%	0.374%
310	16.893	16.864	16.897	HH	80785	1508356	33.44%	1.140%
311	16.901	16.897	16.918	HH	81534	1018333	22.57%	0.769%
312	16.940	16.918	16.959	HH	81556	1920338	42.57%	1.451%
313	16.981	16.959	17.010	HH	83188	2503466	55.50%	1.891%
314	17.030	17.010	17.054	HH	86245	2184088	48.42%	1.650%
315	17.061	17.054	17.075	HH	81839	1030634	22.85%	0.779%
316	17.093	17.075	17.108	HH	85407	1637629	36.30%	1.237%
317	17.126	17.108	17.153	HH	90403	2300964	51.01%	1.738%
318	17.171	17.153	17.176	HH	88005	1195183	26.49%	0.903%
319	17.183	17.176	17.189	HH	89119	713739	15.82%	0.539%
320	17.190	17.189	17.214	HH	88964	1269850	28.15%	0.959%
321	17.282	17.214	17.296	HH	104673	4510991	100.00%	3.408%
322	17.312	17.296	17.336	HH	103359	2408947	53.40%	1.820%
323	17.344	17.336	17.371	HH	99907	2010119	44.56%	1.519%
324	17.387	17.371	17.406	HH	95253	1968458	43.64%	1.487%
325	17.458	17.406	17.472	HH	101258	3854407	85.44%	2.912%

Sum of corrected areas: 132354035

FF071025.M Thu Jul 17 05:05:28 2025

LAB CHRONICLE

OrderID:	Q2529	OrderDate:	7/8/2025 3:36:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2529-01	TP-91	SOIL			07/03/25			07/08/25
			Mercury	7471B		07/09/25	07/10/25	
			Metals ICP-TAL	6010D		07/09/25	07/10/25	
Q2529-02	TP-80	SOIL			07/07/25			07/08/25
			Mercury	7471B		07/09/25	07/10/25	
			Metals ICP-TAL	6010D		07/09/25	07/10/25	
Q2529-03	TP-79	SOIL			07/07/25			07/08/25
			Mercury	7471B		07/09/25	07/10/25	
			Metals ICP-TAL	6010D		07/09/25	07/10/25	
Q2529-04	TP-95	SOIL			07/07/25			07/08/25
			Mercury	7471B		07/09/25	07/10/25	
			Metals ICP-TAL	6010D		07/09/25	07/10/25	
Q2529-05	TP-98	SOIL			07/07/25			07/08/25
			Mercury	7471B		07/09/25	07/10/25	
			Metals ICP-TAL	6010D		07/09/25	07/10/25	
Q2529-06	TP-102	SOIL			07/07/25			07/08/25
			Mercury	7471B		07/09/25	07/10/25	
			Metals ICP-TAL	6010D		07/09/25	07/10/25	
Q2529-07	TP-101	SOIL			07/07/25			07/08/25
			Mercury	7471B		07/09/25	07/10/25	
			Metals ICP-TAL	6010D		07/09/25	07/10/25	
Q2529-08	TP-89	SOIL			07/08/25			07/08/25
			Mercury	7471B		07/09/25	07/10/25	
			Metals ICP-TAL	6010D		07/09/25	07/10/25	
Q2529-09	TP-33	SOIL			07/08/25			07/08/25

LAB CHRONICLE

Q2529-10	TP-30	SOIL	Mercury	7471B	07/09/25	07/10/25	07/08/25	07/08/25
			Metals ICP-TAL	6010D	07/09/25	07/10/25		
			Mercury	7471B	07/09/25	07/10/25		
			Metals ICP-TAL	6010D	07/09/25	07/10/25		

Hit Summary Sheet
SW-846

SDG No.: Q2529 **Order ID:** Q2529
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-91								
Q2529-01	TP-91	SOIL	Aluminum	6380		0.82	4.87	mg/Kg
Q2529-01	TP-91	SOIL	Arsenic	14.1		0.19	0.97	mg/Kg
Q2529-01	TP-91	SOIL	Barium	14.3		0.71	4.87	mg/Kg
Q2529-01	TP-91	SOIL	Beryllium	1.39		0.024	0.29	mg/Kg
Q2529-01	TP-91	SOIL	Chromium	13.0		0.046	0.49	mg/Kg
Q2529-01	TP-91	SOIL	Cobalt	2.63		0.097	1.46	mg/Kg
Q2529-01	TP-91	SOIL	Copper	6.67		0.21	0.97	mg/Kg
Q2529-01	TP-91	SOIL	Iron	38900		3.88	4.87	mg/Kg
Q2529-01	TP-91	SOIL	Lead	11.1		0.13	0.58	mg/Kg
Q2529-01	TP-91	SOIL	Magnesium	329		11.7	97.4	mg/Kg
Q2529-01	TP-91	SOIL	Manganese	24.0		0.14	0.97	mg/Kg
Q2529-01	TP-91	SOIL	Mercury	0.041		0.0080	0.015	mg/Kg
Q2529-01	TP-91	SOIL	Nickel	5.31		0.13	1.95	mg/Kg
Q2529-01	TP-91	SOIL	Potassium	851		27.0	97.4	mg/Kg
Q2529-01	TP-91	SOIL	Silver	0.28	J	0.12	0.49	mg/Kg
Q2529-01	TP-91	SOIL	Sodium	422		17.3	97.4	mg/Kg
Q2529-01	TP-91	SOIL	Thallium	1.56	J	0.22	1.95	mg/Kg
Q2529-01	TP-91	SOIL	Vanadium	36.0		0.24	1.95	mg/Kg
Q2529-01	TP-91	SOIL	Zinc	29.3		0.22	1.95	mg/Kg
Client ID : TP-80								
Q2529-02	TP-80	SOIL	Aluminum	5340		0.77	4.59	mg/Kg
Q2529-02	TP-80	SOIL	Arsenic	5.90		0.18	0.92	mg/Kg
Q2529-02	TP-80	SOIL	Barium	16.7		0.67	4.59	mg/Kg
Q2529-02	TP-80	SOIL	Beryllium	0.60		0.023	0.28	mg/Kg
Q2529-02	TP-80	SOIL	Cadmium	0.14	J	0.022	0.28	mg/Kg
Q2529-02	TP-80	SOIL	Calcium	552		10.2	91.9	mg/Kg
Q2529-02	TP-80	SOIL	Chromium	17.3		0.043	0.46	mg/Kg
Q2529-02	TP-80	SOIL	Cobalt	2.83		0.092	1.38	mg/Kg
Q2529-02	TP-80	SOIL	Copper	7.87		0.20	0.92	mg/Kg
Q2529-02	TP-80	SOIL	Iron	15900		3.67	4.59	mg/Kg
Q2529-02	TP-80	SOIL	Lead	15.1		0.12	0.55	mg/Kg
Q2529-02	TP-80	SOIL	Magnesium	662		11.0	91.9	mg/Kg
Q2529-02	TP-80	SOIL	Manganese	38.8		0.13	0.92	mg/Kg
Q2529-02	TP-80	SOIL	Mercury	0.060		0.0080	0.015	mg/Kg
Q2529-02	TP-80	SOIL	Nickel	5.05		0.12	1.84	mg/Kg
Q2529-02	TP-80	SOIL	Potassium	271		25.5	91.9	mg/Kg
Q2529-02	TP-80	SOIL	Sodium	352		16.4	91.9	mg/Kg

Hit Summary Sheet SW-846

SDG No.: Q2529 **Order ID:** Q2529
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2529-02	TP-80	SOIL	Thallium	0.23	J	0.21	1.84	mg/Kg
Q2529-02	TP-80	SOIL	Vanadium	25.0		0.23	1.84	mg/Kg
Q2529-02	TP-80	SOIL	Zinc	18.1		0.21	1.84	mg/Kg
Client ID : TP-79								
Q2529-03	TP-79	SOIL	Aluminum	8420		0.81	4.84	mg/Kg
Q2529-03	TP-79	SOIL	Arsenic	7.49		0.18	0.97	mg/Kg
Q2529-03	TP-79	SOIL	Barium	14.5		0.71	4.84	mg/Kg
Q2529-03	TP-79	SOIL	Beryllium	0.81		0.024	0.29	mg/Kg
Q2529-03	TP-79	SOIL	Calcium	48.7	J	10.8	96.8	mg/Kg
Q2529-03	TP-79	SOIL	Chromium	20.2		0.046	0.48	mg/Kg
Q2529-03	TP-79	SOIL	Cobalt	3.56		0.097	1.45	mg/Kg
Q2529-03	TP-79	SOIL	Copper	4.83		0.21	0.97	mg/Kg
Q2529-03	TP-79	SOIL	Iron	22300		3.86	4.84	mg/Kg
Q2529-03	TP-79	SOIL	Lead	7.21		0.13	0.58	mg/Kg
Q2529-03	TP-79	SOIL	Magnesium	397		11.6	96.8	mg/Kg
Q2529-03	TP-79	SOIL	Manganese	43.2		0.14	0.97	mg/Kg
Q2529-03	TP-79	SOIL	Mercury	0.063		0.0090	0.015	mg/Kg
Q2529-03	TP-79	SOIL	Nickel	6.07		0.13	1.94	mg/Kg
Q2529-03	TP-79	SOIL	Potassium	377		26.8	96.8	mg/Kg
Q2529-03	TP-79	SOIL	Silver	0.23	J	0.12	0.48	mg/Kg
Q2529-03	TP-79	SOIL	Sodium	465		17.2	96.8	mg/Kg
Q2529-03	TP-79	SOIL	Vanadium	34.4		0.24	1.94	mg/Kg
Q2529-03	TP-79	SOIL	Zinc	18.7		0.22	1.94	mg/Kg
Client ID : TP-95								
Q2529-04	TP-95	SOIL	Aluminum	10700		0.92	5.46	mg/Kg
Q2529-04	TP-95	SOIL	Arsenic	8.96		0.21	1.09	mg/Kg
Q2529-04	TP-95	SOIL	Barium	133		0.80	5.46	mg/Kg
Q2529-04	TP-95	SOIL	Beryllium	0.80		0.027	0.33	mg/Kg
Q2529-04	TP-95	SOIL	Chromium	12.4		0.051	0.55	mg/Kg
Q2529-04	TP-95	SOIL	Cobalt	4.08		0.11	1.64	mg/Kg
Q2529-04	TP-95	SOIL	Copper	6.77		0.24	1.09	mg/Kg
Q2529-04	TP-95	SOIL	Iron	21300		4.35	5.46	mg/Kg
Q2529-04	TP-95	SOIL	Lead	206		0.14	0.66	mg/Kg
Q2529-04	TP-95	SOIL	Magnesium	955		13.1	109	mg/Kg
Q2529-04	TP-95	SOIL	Manganese	66.4		0.15	1.09	mg/Kg
Q2529-04	TP-95	SOIL	Mercury	0.11		0.0090	0.016	mg/Kg
Q2529-04	TP-95	SOIL	Nickel	7.68		0.14	2.18	mg/Kg
Q2529-04	TP-95	SOIL	Potassium	380		30.2	109	mg/Kg
Q2529-04	TP-95	SOIL	Silver	0.27	J	0.13	0.55	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2529 **Order ID:** Q2529
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2529-04	TP-95	SOIL	Sodium	309		19.4	109	mg/Kg
Q2529-04	TP-95	SOIL	Vanadium	29.3		0.27	2.18	mg/Kg
Q2529-04	TP-95	SOIL	Zinc	53.1		0.25	2.18	mg/Kg
Client ID : TP-98								
Q2529-05	TP-98	SOIL	Aluminum	7580		0.79	4.72	mg/Kg
Q2529-05	TP-98	SOIL	Arsenic	7.69		0.18	0.94	mg/Kg
Q2529-05	TP-98	SOIL	Barium	23.1		0.69	4.72	mg/Kg
Q2529-05	TP-98	SOIL	Beryllium	0.72		0.024	0.28	mg/Kg
Q2529-05	TP-98	SOIL	Cadmium	0.13	J	0.023	0.28	mg/Kg
Q2529-05	TP-98	SOIL	Calcium	47.5	J	10.5	94.3	mg/Kg
Q2529-05	TP-98	SOIL	Chromium	9.49		0.044	0.47	mg/Kg
Q2529-05	TP-98	SOIL	Cobalt	4.26		0.094	1.41	mg/Kg
Q2529-05	TP-98	SOIL	Copper	5.76		0.21	0.94	mg/Kg
Q2529-05	TP-98	SOIL	Iron	16800		3.76	4.72	mg/Kg
Q2529-05	TP-98	SOIL	Lead	11.4		0.12	0.57	mg/Kg
Q2529-05	TP-98	SOIL	Magnesium	647		11.3	94.3	mg/Kg
Q2529-05	TP-98	SOIL	Manganese	89.8		0.13	0.94	mg/Kg
Q2529-05	TP-98	SOIL	Mercury	0.078		0.0080	0.015	mg/Kg
Q2529-05	TP-98	SOIL	Nickel	6.52		0.12	1.89	mg/Kg
Q2529-05	TP-98	SOIL	Potassium	274		26.1	94.3	mg/Kg
Q2529-05	TP-98	SOIL	Sodium	207		16.8	94.3	mg/Kg
Q2529-05	TP-98	SOIL	Vanadium	23.6		0.24	1.89	mg/Kg
Q2529-05	TP-98	SOIL	Zinc	20.9		0.22	1.89	mg/Kg
Client ID : TP-102								
Q2529-06	TP-102	SOIL	Aluminum	2060		0.77	4.57	mg/Kg
Q2529-06	TP-102	SOIL	Arsenic	2.65		0.17	0.91	mg/Kg
Q2529-06	TP-102	SOIL	Barium	8.89		0.67	4.57	mg/Kg
Q2529-06	TP-102	SOIL	Beryllium	0.36		0.023	0.27	mg/Kg
Q2529-06	TP-102	SOIL	Calcium	41.6	J	10.1	91.4	mg/Kg
Q2529-06	TP-102	SOIL	Chromium	3.17		0.043	0.46	mg/Kg
Q2529-06	TP-102	SOIL	Cobalt	1.54		0.091	1.37	mg/Kg
Q2529-06	TP-102	SOIL	Copper	2.26		0.20	0.91	mg/Kg
Q2529-06	TP-102	SOIL	Iron	9030		3.65	4.57	mg/Kg
Q2529-06	TP-102	SOIL	Lead	2.41		0.12	0.55	mg/Kg
Q2529-06	TP-102	SOIL	Magnesium	158		11.0	91.4	mg/Kg
Q2529-06	TP-102	SOIL	Manganese	30.5		0.13	0.91	mg/Kg
Q2529-06	TP-102	SOIL	Nickel	1.60	J	0.12	1.83	mg/Kg
Q2529-06	TP-102	SOIL	Potassium	142		25.3	91.4	mg/Kg
Q2529-06	TP-102	SOIL	Sodium	210		16.3	91.4	mg/Kg

Hit Summary Sheet

SW-846

SDG No.:	Q2529	Order ID:	Q2529
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2529-06	TP-102	SOIL	Vanadium	13.2		0.23	1.83	mg/Kg
Q2529-06	TP-102	SOIL	Zinc	7.14		0.21	1.83	mg/Kg
Client ID : TP-101								
Q2529-07	TP-101	SOIL	Aluminum	13500		0.81	4.83	mg/Kg
Q2529-07	TP-101	SOIL	Arsenic	4.58		0.18	0.97	mg/Kg
Q2529-07	TP-101	SOIL	Barium	74.2		0.71	4.83	mg/Kg
Q2529-07	TP-101	SOIL	Beryllium	1.15		0.024	0.29	mg/Kg
Q2529-07	TP-101	SOIL	Cadmium	0.057	J	0.023	0.29	mg/Kg
Q2529-07	TP-101	SOIL	Chromium	6.21		0.045	0.48	mg/Kg
Q2529-07	TP-101	SOIL	Cobalt	4.62		0.097	1.45	mg/Kg
Q2529-07	TP-101	SOIL	Copper	2.57		0.21	0.97	mg/Kg
Q2529-07	TP-101	SOIL	Iron	18500		3.85	4.83	mg/Kg
Q2529-07	TP-101	SOIL	Lead	4.60		0.13	0.58	mg/Kg
Q2529-07	TP-101	SOIL	Magnesium	184		11.6	96.5	mg/Kg
Q2529-07	TP-101	SOIL	Manganese	42.9		0.14	0.97	mg/Kg
Q2529-07	TP-101	SOIL	Mercury	0.030		0.0080	0.015	mg/Kg
Q2529-07	TP-101	SOIL	Nickel	7.84		0.13	1.93	mg/Kg
Q2529-07	TP-101	SOIL	Potassium	168		26.7	96.5	mg/Kg
Q2529-07	TP-101	SOIL	Silver	0.12	J	0.12	0.48	mg/Kg
Q2529-07	TP-101	SOIL	Sodium	240		17.2	96.5	mg/Kg
Q2529-07	TP-101	SOIL	Vanadium	18.2		0.24	1.93	mg/Kg
Q2529-07	TP-101	SOIL	Zinc	17.8		0.22	1.93	mg/Kg
Client ID : TP-89								
Q2529-08	TP-89	SOIL	Aluminum	8870		0.84	4.98	mg/Kg
Q2529-08	TP-89	SOIL	Arsenic	6.60		0.19	1.00	mg/Kg
Q2529-08	TP-89	SOIL	Barium	14.2		0.73	4.98	mg/Kg
Q2529-08	TP-89	SOIL	Beryllium	0.63		0.025	0.30	mg/Kg
Q2529-08	TP-89	SOIL	Calcium	289		11.0	99.5	mg/Kg
Q2529-08	TP-89	SOIL	Chromium	15.8		0.047	0.50	mg/Kg
Q2529-08	TP-89	SOIL	Cobalt	1.74		0.10	1.49	mg/Kg
Q2529-08	TP-89	SOIL	Copper	3.87		0.22	1.00	mg/Kg
Q2529-08	TP-89	SOIL	Iron	17600		3.97	4.98	mg/Kg
Q2529-08	TP-89	SOIL	Lead	5.91		0.13	0.60	mg/Kg
Q2529-08	TP-89	SOIL	Magnesium	207		11.9	99.5	mg/Kg
Q2529-08	TP-89	SOIL	Manganese	17.4		0.14	1.00	mg/Kg
Q2529-08	TP-89	SOIL	Mercury	0.042		0.0090	0.016	mg/Kg
Q2529-08	TP-89	SOIL	Nickel	3.57		0.13	1.99	mg/Kg
Q2529-08	TP-89	SOIL	Potassium	394		27.6	99.5	mg/Kg
Q2529-08	TP-89	SOIL	Sodium	392		17.7	99.5	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: Q2529 **Order ID:** Q2529
Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2529-08	TP-89	SOIL	Vanadium	44.6		0.25	1.99	mg/Kg
Q2529-08	TP-89	SOIL	Zinc	8.81		0.23	1.99	mg/Kg
Client ID : TP-33								
Q2529-09	TP-33	SOIL	Aluminum	9180		0.80	4.78	mg/Kg
Q2529-09	TP-33	SOIL	Arsenic	2.79		0.18	0.96	mg/Kg
Q2529-09	TP-33	SOIL	Barium	34.9		0.70	4.78	mg/Kg
Q2529-09	TP-33	SOIL	Beryllium	0.74		0.024	0.29	mg/Kg
Q2529-09	TP-33	SOIL	Chromium	3.67		0.045	0.48	mg/Kg
Q2529-09	TP-33	SOIL	Cobalt	4.00		0.096	1.44	mg/Kg
Q2529-09	TP-33	SOIL	Copper	2.30		0.21	0.96	mg/Kg
Q2529-09	TP-33	SOIL	Iron	11900		3.82	4.78	mg/Kg
Q2529-09	TP-33	SOIL	Lead	3.50		0.12	0.57	mg/Kg
Q2529-09	TP-33	SOIL	Magnesium	281		11.5	95.7	mg/Kg
Q2529-09	TP-33	SOIL	Manganese	305		0.13	0.96	mg/Kg
Q2529-09	TP-33	SOIL	Mercury	0.011	J	0.0070	0.013	mg/Kg
Q2529-09	TP-33	SOIL	Nickel	5.08		0.12	1.91	mg/Kg
Q2529-09	TP-33	SOIL	Potassium	155		26.5	95.7	mg/Kg
Q2529-09	TP-33	SOIL	Sodium	275		17.0	95.7	mg/Kg
Q2529-09	TP-33	SOIL	Vanadium	16.3		0.24	1.91	mg/Kg
Q2529-09	TP-33	SOIL	Zinc	17.0		0.22	1.91	mg/Kg
Client ID : TP-30								
Q2529-10	TP-30	SOIL	Aluminum	6310		0.86	5.09	mg/Kg
Q2529-10	TP-30	SOIL	Arsenic	4.59		0.19	1.02	mg/Kg
Q2529-10	TP-30	SOIL	Barium	4.62	J	0.74	5.09	mg/Kg
Q2529-10	TP-30	SOIL	Beryllium	0.93		0.025	0.31	mg/Kg
Q2529-10	TP-30	SOIL	Chromium	5.90		0.048	0.51	mg/Kg
Q2529-10	TP-30	SOIL	Cobalt	5.07		0.10	1.53	mg/Kg
Q2529-10	TP-30	SOIL	Copper	2.43		0.22	1.02	mg/Kg
Q2529-10	TP-30	SOIL	Iron	13800		4.06	5.09	mg/Kg
Q2529-10	TP-30	SOIL	Lead	2.66		0.13	0.61	mg/Kg
Q2529-10	TP-30	SOIL	Magnesium	128		12.2	102	mg/Kg
Q2529-10	TP-30	SOIL	Manganese	112		0.14	1.02	mg/Kg
Q2529-10	TP-30	SOIL	Mercury	0.020		0.0080	0.014	mg/Kg
Q2529-10	TP-30	SOIL	Nickel	5.95		0.13	2.04	mg/Kg
Q2529-10	TP-30	SOIL	Potassium	68.5	J	28.2	102	mg/Kg
Q2529-10	TP-30	SOIL	Sodium	154		18.1	102	mg/Kg
Q2529-10	TP-30	SOIL	Vanadium	16.2		0.25	2.04	mg/Kg
Q2529-10	TP-30	SOIL	Zinc	15.6		0.23	2.04	mg/Kg



SAMPLE DATA

A

B

C

D

E

F

G

H

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-91	SDG No.:	Q2529
Lab Sample ID:	Q2529-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6380		1	0.82	4.87	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.43	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-38-2	Arsenic	14.1		1	0.19	0.97	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-39-3	Barium	14.3		1	0.71	4.87	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-41-7	Beryllium	1.39		1	0.024	0.29	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.29	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-70-2	Calcium	10.8	UN	1	10.8	97.4	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-47-3	Chromium	13.0		1	0.046	0.49	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-48-4	Cobalt	2.63		1	0.097	1.46	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-50-8	Copper	6.67		1	0.21	0.97	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7439-89-6	Iron	38900		1	3.88	4.87	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7439-92-1	Lead	11.1		1	0.13	0.58	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7439-95-4	Magnesium	329	N	1	11.7	97.4	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7439-96-5	Manganese	24.0	N	1	0.14	0.97	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7439-97-6	Mercury	0.041		1	0.0080	0.015	mg/Kg	07/09/25 14:40	07/10/25 10:08	7471B	
7440-02-0	Nickel	5.31		1	0.13	1.95	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-09-7	Potassium	851		1	27.0	97.4	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7782-49-2	Selenium	0.25	U	1	0.25	0.97	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-22-4	Silver	0.28	J	1	0.12	0.49	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-23-5	Sodium	422	N	1	17.3	97.4	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-28-0	Thallium	1.56	J	1	0.22	1.95	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-62-2	Vanadium	36.0		1	0.24	1.95	mg/Kg	07/09/25 10:35	07/10/25 20:58	6010D	SW3050
7440-66-6	Zinc	29.3		1	0.22	1.95	mg/Kg	07/09/25 10:35	07/10/25 20:58	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-80	SDG No.:	Q2529
Lab Sample ID:	Q2529-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5340		1	0.77	4.59	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-36-0	Antimony	0.20	UN	1	0.20	2.30	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-38-2	Arsenic	5.90		1	0.18	0.92	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-39-3	Barium	16.7		1	0.67	4.59	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-41-7	Beryllium	0.60		1	0.023	0.28	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-43-9	Cadmium	0.14	J	1	0.022	0.28	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-70-2	Calcium	552	N	1	10.2	91.9	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-47-3	Chromium	17.3		1	0.043	0.46	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-48-4	Cobalt	2.83		1	0.092	1.38	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-50-8	Copper	7.87		1	0.20	0.92	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7439-89-6	Iron	15900		1	3.67	4.59	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7439-92-1	Lead	15.1		1	0.12	0.55	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7439-95-4	Magnesium	662	N	1	11.0	91.9	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7439-96-5	Manganese	38.8	N	1	0.13	0.92	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7439-97-6	Mercury	0.060		1	0.0080	0.015	mg/Kg	07/09/25 14:40	07/10/25 10:10	7471B	
7440-02-0	Nickel	5.05		1	0.12	1.84	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-09-7	Potassium	271		1	25.5	91.9	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7782-49-2	Selenium	0.24	U	1	0.24	0.92	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-22-4	Silver	0.11	U	1	0.11	0.46	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-23-5	Sodium	352	N	1	16.4	91.9	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-28-0	Thallium	0.23	J	1	0.21	1.84	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-62-2	Vanadium	25.0		1	0.23	1.84	mg/Kg	07/09/25 10:35	07/10/25 21:03	6010D	SW3050
7440-66-6	Zinc	18.1		1	0.21	1.84	mg/Kg	07/09/25 10:35	07/10/25 21:03	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-79	SDG No.:	Q2529
Lab Sample ID:	Q2529-03	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	8420		1	0.81	4.84	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.42	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-38-2	Arsenic	7.49		1	0.18	0.97	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-39-3	Barium	14.5		1	0.71	4.84	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-41-7	Beryllium	0.81		1	0.024	0.29	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.29	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-70-2	Calcium	48.7	JN	1	10.8	96.8	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-47-3	Chromium	20.2		1	0.046	0.48	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-48-4	Cobalt	3.56		1	0.097	1.45	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-50-8	Copper	4.83		1	0.21	0.97	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7439-89-6	Iron	22300		1	3.86	4.84	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7439-92-1	Lead	7.21		1	0.13	0.58	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7439-95-4	Magnesium	397	N	1	11.6	96.8	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7439-96-5	Manganese	43.2	N	1	0.14	0.97	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7439-97-6	Mercury	0.063		1	0.0090	0.015	mg/Kg	07/09/25 14:40	07/10/25 10:13	7471B	
7440-02-0	Nickel	6.07		1	0.13	1.94	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-09-7	Potassium	377		1	26.8	96.8	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7782-49-2	Selenium	0.25	U	1	0.25	0.97	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-22-4	Silver	0.23	J	1	0.12	0.48	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-23-5	Sodium	465	N	1	17.2	96.8	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.94	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-62-2	Vanadium	34.4		1	0.24	1.94	mg/Kg	07/09/25 10:35	07/10/25 21:07	6010D	SW3050
7440-66-6	Zinc	18.7		1	0.22	1.94	mg/Kg	07/09/25 10:35	07/10/25 21:07	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-95	SDG No.:	Q2529
Lab Sample ID:	Q2529-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	10700		1	0.92	5.46	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.73	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-38-2	Arsenic	8.96		1	0.21	1.09	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-39-3	Barium	133		1	0.80	5.46	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-41-7	Beryllium	0.80		1	0.027	0.33	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.33	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-70-2	Calcium	12.1	UN	1	12.1	109	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-47-3	Chromium	12.4		1	0.051	0.55	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-48-4	Cobalt	4.08		1	0.11	1.64	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-50-8	Copper	6.77		1	0.24	1.09	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7439-89-6	Iron	21300		1	4.35	5.46	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7439-92-1	Lead	206		1	0.14	0.66	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7439-95-4	Magnesium	955	N	1	13.1	109	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7439-96-5	Manganese	66.4	N	1	0.15	1.09	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7439-97-6	Mercury	0.11		1	0.0090	0.016	mg/Kg	07/09/25 14:40	07/10/25 10:15	7471B	
7440-02-0	Nickel	7.68		1	0.14	2.18	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-09-7	Potassium	380		1	30.2	109	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7782-49-2	Selenium	0.28	U	1	0.28	1.09	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-22-4	Silver	0.27	J	1	0.13	0.55	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-23-5	Sodium	309	N	1	19.4	109	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.18	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-62-2	Vanadium	29.3		1	0.27	2.18	mg/Kg	07/09/25 10:35	07/10/25 21:11	6010D	SW3050
7440-66-6	Zinc	53.1		1	0.25	2.18	mg/Kg	07/09/25 10:35	07/10/25 21:11	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-98	SDG No.:	Q2529
Lab Sample ID:	Q2529-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7580		1	0.79	4.72	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.36	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-38-2	Arsenic	7.69		1	0.18	0.94	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-39-3	Barium	23.1		1	0.69	4.72	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-41-7	Beryllium	0.72		1	0.024	0.28	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-43-9	Cadmium	0.13	J	1	0.023	0.28	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-70-2	Calcium	47.5	JN	1	10.5	94.3	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-47-3	Chromium	9.49		1	0.044	0.47	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-48-4	Cobalt	4.26		1	0.094	1.41	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-50-8	Copper	5.76		1	0.21	0.94	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7439-89-6	Iron	16800		1	3.76	4.72	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7439-92-1	Lead	11.4		1	0.12	0.57	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7439-95-4	Magnesium	647	N	1	11.3	94.3	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7439-96-5	Manganese	89.8	N	1	0.13	0.94	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7439-97-6	Mercury	0.078		1	0.0080	0.015	mg/Kg	07/09/25 14:40	07/10/25 10:17	7471B	
7440-02-0	Nickel	6.52		1	0.12	1.89	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-09-7	Potassium	274		1	26.1	94.3	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7782-49-2	Selenium	0.25	U	1	0.25	0.94	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-22-4	Silver	0.11	U	1	0.11	0.47	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-23-5	Sodium	207	N	1	16.8	94.3	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.89	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-62-2	Vanadium	23.6		1	0.24	1.89	mg/Kg	07/09/25 10:35	07/10/25 21:15	6010D	SW3050
7440-66-6	Zinc	20.9		1	0.22	1.89	mg/Kg	07/09/25 10:35	07/10/25 21:15	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-102	SDG No.:	Q2529
Lab Sample ID:	Q2529-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	95.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2060		1	0.77	4.57	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-36-0	Antimony	0.20	UN	1	0.20	2.28	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-38-2	Arsenic	2.65		1	0.17	0.91	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-39-3	Barium	8.89		1	0.67	4.57	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-41-7	Beryllium	0.36		1	0.023	0.27	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-43-9	Cadmium	0.022	U	1	0.022	0.27	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-70-2	Calcium	41.6	JN	1	10.1	91.4	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-47-3	Chromium	3.17		1	0.043	0.46	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-48-4	Cobalt	1.54		1	0.091	1.37	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-50-8	Copper	2.26		1	0.20	0.91	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7439-89-6	Iron	9030		1	3.65	4.57	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7439-92-1	Lead	2.41		1	0.12	0.55	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7439-95-4	Magnesium	158	N	1	11.0	91.4	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7439-96-5	Manganese	30.5	N	1	0.13	0.91	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7439-97-6	Mercury	0.0070	U	1	0.0070	0.013	mg/Kg	07/09/25 14:40	07/10/25 10:20	7471B	
7440-02-0	Nickel	1.60	J	1	0.12	1.83	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-09-7	Potassium	142		1	25.3	91.4	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7782-49-2	Selenium	0.24	U	1	0.24	0.91	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-22-4	Silver	0.11	U	1	0.11	0.46	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-23-5	Sodium	210	N	1	16.3	91.4	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-28-0	Thallium	0.21	U	1	0.21	1.83	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-62-2	Vanadium	13.2		1	0.23	1.83	mg/Kg	07/09/25 10:35	07/10/25 21:19	6010D	SW3050
7440-66-6	Zinc	7.14		1	0.21	1.83	mg/Kg	07/09/25 10:35	07/10/25 21:19	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/07/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-101	SDG No.:	Q2529
Lab Sample ID:	Q2529-07	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	13500		1	0.81	4.83	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.41	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-38-2	Arsenic	4.58		1	0.18	0.97	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-39-3	Barium	74.2		1	0.71	4.83	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-41-7	Beryllium	1.15		1	0.024	0.29	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-43-9	Cadmium	0.057	J	1	0.023	0.29	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-70-2	Calcium	10.7	UN	1	10.7	96.5	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-47-3	Chromium	6.21		1	0.045	0.48	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-48-4	Cobalt	4.62		1	0.097	1.45	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-50-8	Copper	2.57		1	0.21	0.97	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7439-89-6	Iron	18500		1	3.85	4.83	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7439-92-1	Lead	4.60		1	0.13	0.58	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7439-95-4	Magnesium	184	N	1	11.6	96.5	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7439-96-5	Manganese	42.9	N	1	0.14	0.97	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7439-97-6	Mercury	0.030		1	0.0080	0.015	mg/Kg	07/09/25 14:40	07/10/25 10:22	7471B	
7440-02-0	Nickel	7.84		1	0.13	1.93	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-09-7	Potassium	168		1	26.7	96.5	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7782-49-2	Selenium	0.25	U	1	0.25	0.97	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-22-4	Silver	0.12	J	1	0.12	0.48	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-23-5	Sodium	240	N	1	17.2	96.5	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.93	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-62-2	Vanadium	18.2		1	0.24	1.93	mg/Kg	07/09/25 10:35	07/10/25 21:56	6010D	SW3050
7440-66-6	Zinc	17.8		1	0.22	1.93	mg/Kg	07/09/25 10:35	07/10/25 21:56	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-89	SDG No.:	Q2529
Lab Sample ID:	Q2529-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8870		1	0.84	4.98	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.49	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-38-2	Arsenic	6.60		1	0.19	1.00	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-39-3	Barium	14.2		1	0.73	4.98	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-41-7	Beryllium	0.63		1	0.025	0.30	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-70-2	Calcium	289	N	1	11.0	99.5	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-47-3	Chromium	15.8		1	0.047	0.50	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-48-4	Cobalt	1.74		1	0.10	1.49	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-50-8	Copper	3.87		1	0.22	1.00	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7439-89-6	Iron	17600		1	3.97	4.98	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7439-92-1	Lead	5.91		1	0.13	0.60	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7439-95-4	Magnesium	207	N	1	11.9	99.5	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7439-96-5	Manganese	17.4	N	1	0.14	1.00	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7439-97-6	Mercury	0.042		1	0.0090	0.016	mg/Kg	07/09/25 14:40	07/10/25 10:24	7471B	
7440-02-0	Nickel	3.57		1	0.13	1.99	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-09-7	Potassium	394		1	27.6	99.5	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7782-49-2	Selenium	0.26	U	1	0.26	1.00	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.50	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-23-5	Sodium	392	N	1	17.7	99.5	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	1.99	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-62-2	Vanadium	44.6		1	0.25	1.99	mg/Kg	07/09/25 10:35	07/10/25 22:00	6010D	SW3050
7440-66-6	Zinc	8.81		1	0.23	1.99	mg/Kg	07/09/25 10:35	07/10/25 22:00	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-33	SDG No.:	Q2529
Lab Sample ID:	Q2529-09	Matrix:	SOIL
Level (low/med):	low	% Solid:	90.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9180		1	0.80	4.78	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.39	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-38-2	Arsenic	2.79		1	0.18	0.96	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-39-3	Barium	34.9		1	0.70	4.78	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-41-7	Beryllium	0.74		1	0.024	0.29	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.29	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-70-2	Calcium	10.6	UN	1	10.6	95.7	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-47-3	Chromium	3.67		1	0.045	0.48	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-48-4	Cobalt	4.00		1	0.096	1.44	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-50-8	Copper	2.30		1	0.21	0.96	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7439-89-6	Iron	11900		1	3.82	4.78	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7439-92-1	Lead	3.50		1	0.12	0.57	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7439-95-4	Magnesium	281	N	1	11.5	95.7	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7439-96-5	Manganese	305	N	1	0.13	0.96	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7439-97-6	Mercury	0.011	J	1	0.0070	0.013	mg/Kg	07/09/25 14:40	07/10/25 10:26	7471B	
7440-02-0	Nickel	5.08		1	0.12	1.91	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-09-7	Potassium	155		1	26.5	95.7	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7782-49-2	Selenium	0.25	U	1	0.25	0.96	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.48	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-23-5	Sodium	275	N	1	17.0	95.7	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.91	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-62-2	Vanadium	16.3		1	0.24	1.91	mg/Kg	07/09/25 10:35	07/10/25 22:04	6010D	SW3050
7440-66-6	Zinc	17.0		1	0.22	1.91	mg/Kg	07/09/25 10:35	07/10/25 22:04	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

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	TP-30	SDG No.:	Q2529
Lab Sample ID:	Q2529-10	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	6310		1	0.86	5.09	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.54	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-38-2	Arsenic	4.59		1	0.19	1.02	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-39-3	Barium	4.62	J	1	0.74	5.09	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-41-7	Beryllium	0.93		1	0.025	0.31	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.31	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-70-2	Calcium	11.3	UN	1	11.3	102	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-47-3	Chromium	5.90		1	0.048	0.51	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-48-4	Cobalt	5.07		1	0.10	1.53	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-50-8	Copper	2.43		1	0.22	1.02	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7439-89-6	Iron	13800		1	4.06	5.09	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7439-92-1	Lead	2.66		1	0.13	0.61	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7439-95-4	Magnesium	128	N	1	12.2	102	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7439-96-5	Manganese	112	N	1	0.14	1.02	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7439-97-6	Mercury	0.020		1	0.0080	0.014	mg/Kg	07/09/25 14:40	07/10/25 10:33	7471B	
7440-02-0	Nickel	5.95		1	0.13	2.04	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-09-7	Potassium	68.5	J	1	28.2	102	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7782-49-2	Selenium	0.27	U	1	0.27	1.02	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-22-4	Silver	0.12	U	1	0.12	0.51	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-23-5	Sodium	154	N	1	18.1	102	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	2.04	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-62-2	Vanadium	16.2		1	0.25	2.04	mg/Kg	07/09/25 10:35	07/10/25 22:09	6010D	SW3050
7440-66-6	Zinc	15.6		1	0.23	2.04	mg/Kg	07/09/25 10:35	07/10/25 22:09	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



METAL CALIBRATION DATA

A

B

C

D

E

F

G

H

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith

SDG No.: Q2529

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
ICV23	Mercury	3.72	4.0	93	90 - 110	CV	07/10/2025	09:22	LB136417

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith

SDG No.: Q2529

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
CCV74	Mercury	5.35	5.0	107	90 - 110	CV	07/10/2025	09:27	LB136417
CCV75	Mercury	5.09	5.0	102	90 - 110	CV	07/10/2025	09:59	LB136417
CCV76	Mercury	5.19	5.0	104	90 - 110	CV	07/10/2025	10:29	LB136417
CCV77	Mercury	5.25	5.0	105	90 - 110	CV	07/10/2025	10:40	LB136417

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith

Contract: CAMP02

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2529

Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	8020	8000	100	90 - 110	P	07/10/2025	17:52	LB136428
	Antimony	4080	4000	102	90 - 110	P	07/10/2025	17:52	LB136428
	Arsenic	3860	4000	97	90 - 110	P	07/10/2025	17:52	LB136428
	Barium	7860	8000	98	90 - 110	P	07/10/2025	17:52	LB136428
	Beryllium	199	200	99	90 - 110	P	07/10/2025	17:52	LB136428
	Cadmium	1910	2000	95	90 - 110	P	07/10/2025	17:52	LB136428
	Calcium	19600	20000	98	90 - 110	P	07/10/2025	17:52	LB136428
	Chromium	790	800	99	90 - 110	P	07/10/2025	17:52	LB136428
	Cobalt	1940	2000	97	90 - 110	P	07/10/2025	17:52	LB136428
	Copper	996	1000	100	90 - 110	P	07/10/2025	17:52	LB136428
	Iron	3980	4000	99	90 - 110	P	07/10/2025	17:52	LB136428
	Lead	3760	4000	94	90 - 110	P	07/10/2025	17:52	LB136428
	Magnesium	19700	20000	99	90 - 110	P	07/10/2025	17:52	LB136428
	Manganese	1970	2000	98	90 - 110	P	07/10/2025	17:52	LB136428
	Nickel	1940	2000	97	90 - 110	P	07/10/2025	17:52	LB136428
	Potassium	20000	20000	100	90 - 110	P	07/10/2025	17:52	LB136428
	Selenium	3930	4000	98	90 - 110	P	07/10/2025	17:52	LB136428
	Silver	1040	1000	104	90 - 110	P	07/10/2025	17:52	LB136428
	Sodium	20100	20000	100	90 - 110	P	07/10/2025	17:52	LB136428
	Thallium	3840	4000	96	90 - 110	P	07/10/2025	17:52	LB136428
	Vanadium	2000	2000	100	90 - 110	P	07/10/2025	17:52	LB136428
	Zinc	1990	2000	100	90 - 110	P	07/10/2025	17:52	LB136428

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith
Contract: CAMP02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2529
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	99.6	100	100	80 - 120	P	07/10/2025	18:01	LB136428
	Antimony	53.1	50.0	106	80 - 120	P	07/10/2025	18:01	LB136428
	Arsenic	22.0	20.0	110	80 - 120	P	07/10/2025	18:01	LB136428
	Barium	99.7	100	100	80 - 120	P	07/10/2025	18:01	LB136428
	Beryllium	6.18	6.0	103	80 - 120	P	07/10/2025	18:01	LB136428
	Cadmium	5.90	6.0	98	80 - 120	P	07/10/2025	18:01	LB136428
	Calcium	2020	2000	101	80 - 120	P	07/10/2025	18:01	LB136428
	Chromium	10.4	10.0	104	80 - 120	P	07/10/2025	18:01	LB136428
	Cobalt	29.8	30.0	99	80 - 120	P	07/10/2025	18:01	LB136428
	Copper	21.9	20.0	109	80 - 120	P	07/10/2025	18:01	LB136428
	Iron	99.3	100	99	80 - 120	P	07/10/2025	18:01	LB136428
	Lead	10.9	12.0	91	80 - 120	P	07/10/2025	18:01	LB136428
	Magnesium	2190	2000	109	80 - 120	P	07/10/2025	18:01	LB136428
	Manganese	22.4	20.0	112	80 - 120	P	07/10/2025	18:01	LB136428
	Nickel	40.3	40.0	101	80 - 120	P	07/10/2025	18:01	LB136428
	Potassium	1920	2000	96	80 - 120	P	07/10/2025	18:01	LB136428
	Selenium	23.3	20.0	116	80 - 120	P	07/10/2025	18:01	LB136428
	Silver	8.23	10.0	82	80 - 120	P	07/10/2025	18:01	LB136428
	Sodium	1980	2000	99	80 - 120	P	07/10/2025	18:01	LB136428
	Thallium	40.9	40.0	102	80 - 120	P	07/10/2025	18:01	LB136428
	Vanadium	41.3	40.0	103	80 - 120	P	07/10/2025	18:01	LB136428
	Zinc	40.9	40.0	102	80 - 120	P	07/10/2025	18:01	LB136428

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith
Contract: CAMP02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2529
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10000	10000	100	90 - 110	P	07/10/2025	18:40	LB136428
	Antimony	5060	5000	101	90 - 110	P	07/10/2025	18:40	LB136428
	Arsenic	5090	5000	102	90 - 110	P	07/10/2025	18:40	LB136428
	Barium	9970	10000	100	90 - 110	P	07/10/2025	18:40	LB136428
	Beryllium	249	250	100	90 - 110	P	07/10/2025	18:40	LB136428
	Cadmium	2520	2500	101	90 - 110	P	07/10/2025	18:40	LB136428
	Calcium	25100	25000	100	90 - 110	P	07/10/2025	18:40	LB136428
	Chromium	1020	1000	102	90 - 110	P	07/10/2025	18:40	LB136428
	Cobalt	2500	2500	100	90 - 110	P	07/10/2025	18:40	LB136428
	Copper	1270	1250	101	90 - 110	P	07/10/2025	18:40	LB136428
	Iron	5030	5000	101	90 - 110	P	07/10/2025	18:40	LB136428
	Lead	4990	5000	100	90 - 110	P	07/10/2025	18:40	LB136428
	Magnesium	25000	25000	100	90 - 110	P	07/10/2025	18:40	LB136428
	Manganese	2540	2500	102	90 - 110	P	07/10/2025	18:40	LB136428
	Nickel	2510	2500	101	90 - 110	P	07/10/2025	18:40	LB136428
	Potassium	26100	25000	104	90 - 110	P	07/10/2025	18:40	LB136428
	Selenium	5090	5000	102	90 - 110	P	07/10/2025	18:40	LB136428
	Silver	1250	1250	100	90 - 110	P	07/10/2025	18:40	LB136428
	Sodium	26200	25000	105	90 - 110	P	07/10/2025	18:40	LB136428
	Thallium	5180	5000	104	90 - 110	P	07/10/2025	18:40	LB136428
	Vanadium	2510	2500	100	90 - 110	P	07/10/2025	18:40	LB136428
	Zinc	2600	2500	104	90 - 110	P	07/10/2025	18:40	LB136428
CCV02	Aluminum	9920	10000	99	90 - 110	P	07/10/2025	19:30	LB136428
	Antimony	5080	5000	102	90 - 110	P	07/10/2025	19:30	LB136428
	Arsenic	5100	5000	102	90 - 110	P	07/10/2025	19:30	LB136428
	Barium	9740	10000	97	90 - 110	P	07/10/2025	19:30	LB136428
	Beryllium	245	250	98	90 - 110	P	07/10/2025	19:30	LB136428
	Cadmium	2510	2500	100	90 - 110	P	07/10/2025	19:30	LB136428
	Calcium	24600	25000	99	90 - 110	P	07/10/2025	19:30	LB136428
	Chromium	1010	1000	101	90 - 110	P	07/10/2025	19:30	LB136428
	Cobalt	2500	2500	100	90 - 110	P	07/10/2025	19:30	LB136428
	Copper	1260	1250	101	90 - 110	P	07/10/2025	19:30	LB136428
	Iron	5070	5000	101	90 - 110	P	07/10/2025	19:30	LB136428
	Lead	4980	5000	100	90 - 110	P	07/10/2025	19:30	LB136428

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith
Contract: CAMP02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2529
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24500	25000	98	90 - 110	P	07/10/2025	19:30	LB136428
	Manganese	2500	2500	100	90 - 110	P	07/10/2025	19:30	LB136428
	Nickel	2500	2500	100	90 - 110	P	07/10/2025	19:30	LB136428
	Potassium	27000	25000	108	90 - 110	P	07/10/2025	19:30	LB136428
	Selenium	5120	5000	102	90 - 110	P	07/10/2025	19:30	LB136428
	Silver	1260	1250	101	90 - 110	P	07/10/2025	19:30	LB136428
	Sodium	27100	25000	108	90 - 110	P	07/10/2025	19:30	LB136428
	Thallium	5110	5000	102	90 - 110	P	07/10/2025	19:30	LB136428
	Vanadium	2470	2500	99	90 - 110	P	07/10/2025	19:30	LB136428
	Zinc	2630	2500	105	90 - 110	P	07/10/2025	19:30	LB136428
CCV03	Aluminum	9760	10000	98	90 - 110	P	07/10/2025	20:22	LB136428
	Antimony	4980	5000	100	90 - 110	P	07/10/2025	20:22	LB136428
	Arsenic	5000	5000	100	90 - 110	P	07/10/2025	20:22	LB136428
	Barium	9530	10000	95	90 - 110	P	07/10/2025	20:22	LB136428
	Beryllium	241	250	96	90 - 110	P	07/10/2025	20:22	LB136428
	Cadmium	2460	2500	99	90 - 110	P	07/10/2025	20:22	LB136428
	Calcium	24300	25000	97	90 - 110	P	07/10/2025	20:22	LB136428
	Chromium	1000	1000	100	90 - 110	P	07/10/2025	20:22	LB136428
	Cobalt	2450	2500	98	90 - 110	P	07/10/2025	20:22	LB136428
	Copper	1240	1250	99	90 - 110	P	07/10/2025	20:22	LB136428
	Iron	4890	5000	98	90 - 110	P	07/10/2025	20:22	LB136428
	Lead	4890	5000	98	90 - 110	P	07/10/2025	20:22	LB136428
	Magnesium	24200	25000	97	90 - 110	P	07/10/2025	20:22	LB136428
	Manganese	2480	2500	99	90 - 110	P	07/10/2025	20:22	LB136428
	Nickel	2450	2500	98	90 - 110	P	07/10/2025	20:22	LB136428
	Potassium	25700	25000	103	90 - 110	P	07/10/2025	20:22	LB136428
	Selenium	4990	5000	100	90 - 110	P	07/10/2025	20:22	LB136428
	Silver	1240	1250	99	90 - 110	P	07/10/2025	20:22	LB136428
	Sodium	23800	25000	95	90 - 110	P	07/10/2025	20:22	LB136428
	Thallium	5120	5000	102	90 - 110	P	07/10/2025	20:22	LB136428
	Vanadium	2440	2500	98	90 - 110	P	07/10/2025	20:22	LB136428
	Zinc	2590	2500	104	90 - 110	P	07/10/2025	20:22	LB136428
CCV04	Aluminum	9820	10000	98	90 - 110	P	07/10/2025	21:27	LB136428
	Antimony	4960	5000	99	90 - 110	P	07/10/2025	21:27	LB136428

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith
Contract: CAMP02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2529
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4990	5000	100	90 - 110	P	07/10/2025	21:27	LB136428
	Barium	9610	10000	96	90 - 110	P	07/10/2025	21:27	LB136428
	Beryllium	247	250	99	90 - 110	P	07/10/2025	21:27	LB136428
	Cadmium	2470	2500	99	90 - 110	P	07/10/2025	21:27	LB136428
	Calcium	24300	25000	97	90 - 110	P	07/10/2025	21:27	LB136428
	Chromium	1010	1000	101	90 - 110	P	07/10/2025	21:27	LB136428
	Cobalt	2450	2500	98	90 - 110	P	07/10/2025	21:27	LB136428
	Copper	1240	1250	99	90 - 110	P	07/10/2025	21:27	LB136428
	Iron	4880	5000	98	90 - 110	P	07/10/2025	21:27	LB136428
	Lead	4880	5000	98	90 - 110	P	07/10/2025	21:27	LB136428
	Magnesium	24100	25000	96	90 - 110	P	07/10/2025	21:27	LB136428
	Manganese	2480	2500	99	90 - 110	P	07/10/2025	21:27	LB136428
	Nickel	2460	2500	98	90 - 110	P	07/10/2025	21:27	LB136428
	Potassium	26300	25000	105	90 - 110	P	07/10/2025	21:27	LB136428
	Selenium	4990	5000	100	90 - 110	P	07/10/2025	21:27	LB136428
	Silver	1240	1250	99	90 - 110	P	07/10/2025	21:27	LB136428
	Sodium	24900	25000	100	90 - 110	P	07/10/2025	21:27	LB136428
	Thallium	5140	5000	103	90 - 110	P	07/10/2025	21:27	LB136428
	Vanadium	2440	2500	98	90 - 110	P	07/10/2025	21:27	LB136428
	Zinc	2650	2500	106	90 - 110	P	07/10/2025	21:27	LB136428
CCV05	Aluminum	9670	10000	97	90 - 110	P	07/10/2025	22:25	LB136428
	Antimony	4960	5000	99	90 - 110	P	07/10/2025	22:25	LB136428
	Arsenic	4990	5000	100	90 - 110	P	07/10/2025	22:25	LB136428
	Barium	9580	10000	96	90 - 110	P	07/10/2025	22:25	LB136428
	Beryllium	244	250	98	90 - 110	P	07/10/2025	22:25	LB136428
	Cadmium	2460	2500	98	90 - 110	P	07/10/2025	22:25	LB136428
	Calcium	24100	25000	96	90 - 110	P	07/10/2025	22:25	LB136428
	Chromium	992	1000	99	90 - 110	P	07/10/2025	22:25	LB136428
	Cobalt	2440	2500	98	90 - 110	P	07/10/2025	22:25	LB136428
	Copper	1230	1250	99	90 - 110	P	07/10/2025	22:25	LB136428
	Iron	4810	5000	96	90 - 110	P	07/10/2025	22:25	LB136428
	Lead	4880	5000	98	90 - 110	P	07/10/2025	22:25	LB136428
	Magnesium	23900	25000	96	90 - 110	P	07/10/2025	22:25	LB136428
	Manganese	2450	2500	98	90 - 110	P	07/10/2025	22:25	LB136428

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith
Contract: CAMP02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2529
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2450	2500	98	90 - 110	P	07/10/2025	22:25	LB136428
	Potassium	26500	25000	106	90 - 110	P	07/10/2025	22:25	LB136428
	Selenium	4970	5000	99	90 - 110	P	07/10/2025	22:25	LB136428
	Silver	1230	1250	98	90 - 110	P	07/10/2025	22:25	LB136428
	Sodium	25900	25000	104	90 - 110	P	07/10/2025	22:25	LB136428
	Thallium	4920	5000	98	90 - 110	P	07/10/2025	22:25	LB136428
	Vanadium	2410	2500	96	90 - 110	P	07/10/2025	22:25	LB136428
	Zinc	2690	2500	108	90 - 110	P	07/10/2025	22:25	LB136428
CCV06	Aluminum	9610	10000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Antimony	4820	5000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Arsenic	4850	5000	97	90 - 110	P	07/10/2025	23:27	LB136428
	Barium	9580	10000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Beryllium	246	250	98	90 - 110	P	07/10/2025	23:27	LB136428
	Cadmium	2430	2500	97	90 - 110	P	07/10/2025	23:27	LB136428
	Calcium	24000	25000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Chromium	984	1000	98	90 - 110	P	07/10/2025	23:27	LB136428
	Cobalt	2410	2500	96	90 - 110	P	07/10/2025	23:27	LB136428
	Copper	1210	1250	97	90 - 110	P	07/10/2025	23:27	LB136428
	Iron	4640	5000	93	90 - 110	P	07/10/2025	23:27	LB136428
	Lead	4810	5000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Magnesium	23900	25000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Manganese	2450	2500	98	90 - 110	P	07/10/2025	23:27	LB136428
	Nickel	2410	2500	96	90 - 110	P	07/10/2025	23:27	LB136428
	Potassium	25000	25000	100	90 - 110	P	07/10/2025	23:27	LB136428
	Selenium	4820	5000	96	90 - 110	P	07/10/2025	23:27	LB136428
	Silver	1210	1250	96	90 - 110	P	07/10/2025	23:27	LB136428
	Sodium	26100	25000	104	90 - 110	P	07/10/2025	23:27	LB136428
	Thallium	4850	5000	97	90 - 110	P	07/10/2025	23:27	LB136428
	Vanadium	2390	2500	95	90 - 110	P	07/10/2025	23:27	LB136428
	Zinc	2660	2500	106	90 - 110	P	07/10/2025	23:27	LB136428
CCV07	Aluminum	9660	10000	97	90 - 110	P	07/11/2025	00:18	LB136428
	Antimony	4870	5000	98	90 - 110	P	07/11/2025	00:18	LB136428
	Arsenic	4890	5000	98	90 - 110	P	07/11/2025	00:18	LB136428
	Barium	9630	10000	96	90 - 110	P	07/11/2025	00:18	LB136428

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith
Contract: CAMP02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2529
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	246	250	98	90 - 110	P	07/11/2025	00:18	LB136428
	Cadmium	2440	2500	98	90 - 110	P	07/11/2025	00:18	LB136428
	Calcium	24000	25000	96	90 - 110	P	07/11/2025	00:18	LB136428
	Chromium	987	1000	99	90 - 110	P	07/11/2025	00:18	LB136428
	Cobalt	2420	2500	97	90 - 110	P	07/11/2025	00:18	LB136428
	Copper	1220	1250	98	90 - 110	P	07/11/2025	00:18	LB136428
	Iron	4830	5000	97	90 - 110	P	07/11/2025	00:18	LB136428
	Lead	4840	5000	97	90 - 110	P	07/11/2025	00:18	LB136428
	Magnesium	24000	25000	96	90 - 110	P	07/11/2025	00:18	LB136428
	Manganese	2450	2500	98	90 - 110	P	07/11/2025	00:18	LB136428
	Nickel	2420	2500	97	90 - 110	P	07/11/2025	00:18	LB136428
	Potassium	25700	25000	103	90 - 110	P	07/11/2025	00:18	LB136428
	Selenium	4860	5000	97	90 - 110	P	07/11/2025	00:18	LB136428
	Silver	1210	1250	97	90 - 110	P	07/11/2025	00:18	LB136428
	Sodium	24800	25000	99	90 - 110	P	07/11/2025	00:18	LB136428
	Thallium	4830	5000	97	90 - 110	P	07/11/2025	00:18	LB136428
	Vanadium	2400	2500	96	90 - 110	P	07/11/2025	00:18	LB136428
	Zinc	2690	2500	108	90 - 110	P	07/11/2025	00:18	LB136428
CCV08	Aluminum	9610	10000	96	90 - 110	P	07/11/2025	01:09	LB136428
	Antimony	4820	5000	96	90 - 110	P	07/11/2025	01:09	LB136428
	Arsenic	4840	5000	97	90 - 110	P	07/11/2025	01:09	LB136428
	Barium	9520	10000	95	90 - 110	P	07/11/2025	01:09	LB136428
	Beryllium	247	250	99	90 - 110	P	07/11/2025	01:09	LB136428
	Cadmium	2440	2500	98	90 - 110	P	07/11/2025	01:09	LB136428
	Calcium	24100	25000	96	90 - 110	P	07/11/2025	01:09	LB136428
	Chromium	988	1000	99	90 - 110	P	07/11/2025	01:09	LB136428
	Cobalt	2430	2500	97	90 - 110	P	07/11/2025	01:09	LB136428
	Copper	1220	1250	97	90 - 110	P	07/11/2025	01:09	LB136428
	Iron	4700	5000	94	90 - 110	P	07/11/2025	01:09	LB136428
	Lead	4830	5000	97	90 - 110	P	07/11/2025	01:09	LB136428
	Magnesium	24200	25000	97	90 - 110	P	07/11/2025	01:09	LB136428
	Manganese	2460	2500	98	90 - 110	P	07/11/2025	01:09	LB136428
	Nickel	2420	2500	97	90 - 110	P	07/11/2025	01:09	LB136428
	Potassium	25400	25000	102	90 - 110	P	07/11/2025	01:09	LB136428

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith
Contract: CAMP02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2529
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4790	5000	96	90 - 110	P	07/11/2025	01:09	LB136428
	Silver	1200	1250	96	90 - 110	P	07/11/2025	01:09	LB136428
	Sodium	24800	25000	99	90 - 110	P	07/11/2025	01:09	LB136428
	Thallium	4740	5000	95	90 - 110	P	07/11/2025	01:09	LB136428
	Vanadium	2410	2500	96	90 - 110	P	07/11/2025	01:09	LB136428
	Zinc	2710	2500	108	90 - 110	P	07/11/2025	01:09	LB136428
CCV09	Aluminum	9630	10000	96	90 - 110	P	07/11/2025	01:58	LB136428
	Antimony	4790	5000	96	90 - 110	P	07/11/2025	01:58	LB136428
	Arsenic	4830	5000	97	90 - 110	P	07/11/2025	01:58	LB136428
	Barium	9590	10000	96	90 - 110	P	07/11/2025	01:58	LB136428
	Beryllium	257	250	103	90 - 110	P	07/11/2025	01:58	LB136428
	Cadmium	2450	2500	98	90 - 110	P	07/11/2025	01:58	LB136428
	Calcium	24100	25000	96	90 - 110	P	07/11/2025	01:58	LB136428
	Chromium	999	1000	100	90 - 110	P	07/11/2025	01:58	LB136428
	Cobalt	2430	2500	97	90 - 110	P	07/11/2025	01:58	LB136428
	Copper	1220	1250	97	90 - 110	P	07/11/2025	01:58	LB136428
	Iron	4670	5000	93	90 - 110	P	07/11/2025	01:58	LB136428
	Lead	4860	5000	97	90 - 110	P	07/11/2025	01:58	LB136428
	Magnesium	24500	25000	98	90 - 110	P	07/11/2025	01:58	LB136428
	Manganese	2480	2500	99	90 - 110	P	07/11/2025	01:58	LB136428
	Nickel	2430	2500	97	90 - 110	P	07/11/2025	01:58	LB136428
	Potassium	25100	25000	100	90 - 110	P	07/11/2025	01:58	LB136428
	Selenium	4790	5000	96	90 - 110	P	07/11/2025	01:58	LB136428
	Silver	1220	1250	98	90 - 110	P	07/11/2025	01:58	LB136428
	Sodium	24700	25000	99	90 - 110	P	07/11/2025	01:58	LB136428
	Thallium	4980	5000	100	90 - 110	P	07/11/2025	01:58	LB136428
	Vanadium	2420	2500	97	90 - 110	P	07/11/2025	01:58	LB136428
	Zinc	2740	2500	110	90 - 110	P	07/11/2025	01:58	LB136428
CCV10	Aluminum	9600	10000	96	90 - 110	P	07/11/2025	02:36	LB136428
	Antimony	4790	5000	96	90 - 110	P	07/11/2025	02:36	LB136428
	Arsenic	4840	5000	97	90 - 110	P	07/11/2025	02:36	LB136428
	Barium	9510	10000	95	90 - 110	P	07/11/2025	02:36	LB136428
	Beryllium	257	250	103	90 - 110	P	07/11/2025	02:36	LB136428
	Cadmium	2440	2500	97	90 - 110	P	07/11/2025	02:36	LB136428

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith
Contract: CAMP02
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q2529
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	24000	25000	96	90 - 110	P	07/11/2025	02:36	LB136428
	Chromium	991	1000	99	90 - 110	P	07/11/2025	02:36	LB136428
	Cobalt	2420	2500	97	90 - 110	P	07/11/2025	02:36	LB136428
	Copper	1210	1250	97	90 - 110	P	07/11/2025	02:36	LB136428
	Iron	4680	5000	94	90 - 110	P	07/11/2025	02:36	LB136428
	Lead	4840	5000	97	90 - 110	P	07/11/2025	02:36	LB136428
	Magnesium	24400	25000	98	90 - 110	P	07/11/2025	02:36	LB136428
	Manganese	2470	2500	99	90 - 110	P	07/11/2025	02:36	LB136428
	Nickel	2410	2500	97	90 - 110	P	07/11/2025	02:36	LB136428
	Potassium	24800	25000	99	90 - 110	P	07/11/2025	02:36	LB136428
	Selenium	4810	5000	96	90 - 110	P	07/11/2025	02:36	LB136428
	Silver	1210	1250	96	90 - 110	P	07/11/2025	02:36	LB136428
	Sodium	26700	25000	107	90 - 110	P	07/11/2025	02:36	LB136428
	Thallium	4960	5000	99	90 - 110	P	07/11/2025	02:36	LB136428
	Vanadium	2410	2500	96	90 - 110	P	07/11/2025	02:36	LB136428
	Zinc	2720	2500	109	90 - 110	P	07/11/2025	02:36	LB136428

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2529
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	111	70 - 130	CV	07/10/2025	09:34	LB136417
CRI01	Aluminum	94.2	100	94	65 - 135	P	07/10/2025	18:09	LB136428
	Antimony	50.0	50.0	100	65 - 135	P	07/10/2025	18:09	LB136428
	Arsenic	22.0	20.0	110	65 - 135	P	07/10/2025	18:09	LB136428
	Barium	101	100	101	65 - 135	P	07/10/2025	18:09	LB136428
	Beryllium	6.42	6.0	107	65 - 135	P	07/10/2025	18:09	LB136428
	Cadmium	5.94	6.0	99	65 - 135	P	07/10/2025	18:09	LB136428
	Calcium	2050	2000	102	65 - 135	P	07/10/2025	18:09	LB136428
	Chromium	10.7	10.0	106	65 - 135	P	07/10/2025	18:09	LB136428
	Cobalt	29.8	30.0	99	65 - 135	P	07/10/2025	18:09	LB136428
	Copper	21.9	20.0	109	65 - 135	P	07/10/2025	18:09	LB136428
	Iron	104	100	104	65 - 135	P	07/10/2025	18:09	LB136428
	Lead	11.2	12.0	93	65 - 135	P	07/10/2025	18:09	LB136428
	Magnesium	2230	2000	111	65 - 135	P	07/10/2025	18:09	LB136428
	Manganese	22.1	20.0	110	65 - 135	P	07/10/2025	18:09	LB136428
	Nickel	40.6	40.0	102	65 - 135	P	07/10/2025	18:09	LB136428
	Potassium	1860	2000	93	65 - 135	P	07/10/2025	18:09	LB136428
	Selenium	24.0	20.0	120	65 - 135	P	07/10/2025	18:09	LB136428
	Silver	8.69	10.0	87	65 - 135	P	07/10/2025	18:09	LB136428
	Sodium	1960	2000	98	65 - 135	P	07/10/2025	18:09	LB136428
	Thallium	45.3	40.0	113	65 - 135	P	07/10/2025	18:09	LB136428
	Vanadium	41.0	40.0	102	65 - 135	P	07/10/2025	18:09	LB136428
	Zinc	40.7	40.0	102	65 - 135	P	07/10/2025	18:09	LB136428



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2529

Contract: CAMP02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB23	Mercury	0.076	+/-0.2	U	0.20	CV	07/10/2025	09:24	LB136417

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2529
Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB74	Mercury	0.076	+/-0.2	U	0.20	CV	07/10/2025	09:32	LB136417
CCB75	Mercury	0.076	+/-0.2	U	0.20	CV	07/10/2025	10:04	LB136417
CCB76	Mercury	0.076	+/-0.2	U	0.20	CV	07/10/2025	10:31	LB136417
CCB77	Mercury	0.076	+/-0.2	U	0.20	CV	07/10/2025	10:42	LB136417

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2529

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	07/10/2025	18:05	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	18:05	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	18:05	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	18:05	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	18:05	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	18:05	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	18:05	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	18:05	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	18:05	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	18:05	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	18:05	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	18:05	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/10/2025	18:05	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	18:05	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	18:05	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	18:05	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	18:05	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/10/2025	18:05	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	18:05	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	18:05	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	18:05	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/10/2025	18:05	LB136428

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2529

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	07/10/2025	18:44	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	18:44	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	18:44	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	18:44	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	18:44	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	18:44	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	18:44	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	18:44	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	18:44	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	18:44	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	18:44	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	18:44	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/10/2025	18:44	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	18:44	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	18:44	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	18:44	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	18:44	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/10/2025	18:44	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	18:44	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	18:44	LB136428
Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	18:44	LB136428	
Zinc	16.7	+/-20	U	40.0	P	07/10/2025	18:44	LB136428	
CCB02	Aluminum	11.3	+/-50	U	100	P	07/10/2025	19:34	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	19:34	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	19:34	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	19:34	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	19:34	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	19:34	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	19:34	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	19:34	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	19:34	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	19:34	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	19:34	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	19:34	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/10/2025	19:34	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	19:34	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	19:34	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	19:34	LB136428
Selenium	9.64	+/-10	U	20.0	P	07/10/2025	19:34	LB136428	

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2529

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	07/10/2025	19:34	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	19:34	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	19:34	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	19:34	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/10/2025	19:34	LB136428
CCB03	Aluminum	11.3	+/-50	U	100	P	07/10/2025	20:36	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	20:36	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	20:36	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	20:36	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	20:36	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	20:36	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	20:36	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	20:36	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	20:36	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	20:36	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	20:36	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	20:36	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/10/2025	20:36	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	20:36	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	20:36	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	20:36	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	20:36	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/10/2025	20:36	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	20:36	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	20:36	LB136428
Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	20:36	LB136428	
Zinc	16.7	+/-20	U	40.0	P	07/10/2025	20:36	LB136428	
CCB04	Aluminum	11.3	+/-50	U	100	P	07/10/2025	21:31	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	21:31	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	21:31	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	21:31	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	21:31	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	21:31	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	21:31	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	21:31	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	21:31	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	21:31	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	21:31	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	21:31	LB136428

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2529

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	07/10/2025	21:31	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	21:31	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	21:31	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	21:31	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	21:31	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/10/2025	21:31	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	21:31	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	21:31	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	21:31	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/10/2025	21:31	LB136428
CCB05	Aluminum	11.3	+/-50	U	100	P	07/10/2025	22:31	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	22:31	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	22:31	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	22:31	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	22:31	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	22:31	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	22:31	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	22:31	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	22:31	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	22:31	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	22:31	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	22:31	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/10/2025	22:31	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	22:31	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	22:31	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	22:31	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	22:31	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/10/2025	22:31	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	22:31	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	22:31	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	22:31	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/10/2025	22:31	LB136428
CCB06	Aluminum	11.3	+/-50	U	100	P	07/10/2025	23:31	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/10/2025	23:31	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/10/2025	23:31	LB136428
	Barium	14.6	+/-50	U	100	P	07/10/2025	23:31	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/10/2025	23:31	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/10/2025	23:31	LB136428
	Calcium	234	+/-1000	U	2000	P	07/10/2025	23:31	LB136428

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2529

Contract: CAMP02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.12	+/-5	U	10.0	P	07/10/2025	23:31	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/10/2025	23:31	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/10/2025	23:31	LB136428
	Iron	23.4	+/-50	U	100	P	07/10/2025	23:31	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/10/2025	23:31	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/10/2025	23:31	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/10/2025	23:31	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/10/2025	23:31	LB136428
	Potassium	918	+/-1000	U	2000	P	07/10/2025	23:31	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/10/2025	23:31	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/10/2025	23:31	LB136428
	Sodium	868	+/-1000	U	2000	P	07/10/2025	23:31	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/10/2025	23:31	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/10/2025	23:31	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/10/2025	23:31	LB136428
CCB07	Aluminum	11.3	+/-50	U	100	P	07/11/2025	00:22	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/11/2025	00:22	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/11/2025	00:22	LB136428
	Barium	14.6	+/-50	U	100	P	07/11/2025	00:22	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/11/2025	00:22	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/11/2025	00:22	LB136428
	Calcium	234	+/-1000	U	2000	P	07/11/2025	00:22	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/11/2025	00:22	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/11/2025	00:22	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/11/2025	00:22	LB136428
	Iron	23.4	+/-50	U	100	P	07/11/2025	00:22	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/11/2025	00:22	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/11/2025	00:22	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/11/2025	00:22	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/11/2025	00:22	LB136428
	Potassium	918	+/-1000	U	2000	P	07/11/2025	00:22	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/11/2025	00:22	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/11/2025	00:22	LB136428
	Sodium	868	+/-1000	U	2000	P	07/11/2025	00:22	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/11/2025	00:22	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/11/2025	00:22	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/11/2025	00:22	LB136428
CCB08	Aluminum	11.3	+/-50	U	100	P	07/11/2025	01:14	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/11/2025	01:14	LB136428

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2529

Contract: CAMP02

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	5.12	+/-10	U	20.0	P	07/11/2025	01:14	LB136428
	Barium	14.6	+/-50	U	100	P	07/11/2025	01:14	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/11/2025	01:14	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/11/2025	01:14	LB136428
	Calcium	234	+/-1000	U	2000	P	07/11/2025	01:14	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/11/2025	01:14	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/11/2025	01:14	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/11/2025	01:14	LB136428
	Iron	23.4	+/-50	U	100	P	07/11/2025	01:14	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/11/2025	01:14	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/11/2025	01:14	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/11/2025	01:14	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/11/2025	01:14	LB136428
	Potassium	918	+/-1000	U	2000	P	07/11/2025	01:14	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/11/2025	01:14	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/11/2025	01:14	LB136428
	Sodium	868	+/-1000	U	2000	P	07/11/2025	01:14	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/11/2025	01:14	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/11/2025	01:14	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/11/2025	01:14	LB136428
CCB09	Aluminum	11.3	+/-50	U	100	P	07/11/2025	02:03	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/11/2025	02:03	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/11/2025	02:03	LB136428
	Barium	14.6	+/-50	U	100	P	07/11/2025	02:03	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/11/2025	02:03	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/11/2025	02:03	LB136428
	Calcium	234	+/-1000	U	2000	P	07/11/2025	02:03	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/11/2025	02:03	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/11/2025	02:03	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/11/2025	02:03	LB136428
	Iron	23.4	+/-50	U	100	P	07/11/2025	02:03	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/11/2025	02:03	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/11/2025	02:03	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/11/2025	02:03	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/11/2025	02:03	LB136428
	Potassium	918	+/-1000	U	2000	P	07/11/2025	02:03	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/11/2025	02:03	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/11/2025	02:03	LB136428
	Sodium	868	+/-1000	U	2000	P	07/11/2025	02:03	LB136428

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2529
Contract: CAMP02 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	4.38	+/-20	U	40.0	P	07/11/2025	02:03	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/11/2025	02:03	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/11/2025	02:03	LB136428
CCB10	Aluminum	11.3	+/-50	U	100	P	07/11/2025	02:40	LB136428
	Antimony	6.76	+/-25	U	50.0	P	07/11/2025	02:40	LB136428
	Arsenic	5.12	+/-10	U	20.0	P	07/11/2025	02:40	LB136428
	Barium	14.6	+/-50	U	100	P	07/11/2025	02:40	LB136428
	Beryllium	0.56	+/-3	U	6.00	P	07/11/2025	02:40	LB136428
	Cadmium	0.50	+/-3	U	6.00	P	07/11/2025	02:40	LB136428
	Calcium	234	+/-1000	U	2000	P	07/11/2025	02:40	LB136428
	Chromium	2.12	+/-5	U	10.0	P	07/11/2025	02:40	LB136428
	Cobalt	2.26	+/-15	U	30.0	P	07/11/2025	02:40	LB136428
	Copper	4.60	+/-10	U	20.0	P	07/11/2025	02:40	LB136428
	Iron	23.4	+/-50	U	100	P	07/11/2025	02:40	LB136428
	Lead	2.30	+/-6	U	12.0	P	07/11/2025	02:40	LB136428
	Magnesium	244	+/-1000	U	2000	P	07/11/2025	02:40	LB136428
	Manganese	5.94	+/-10	U	20.0	P	07/11/2025	02:40	LB136428
	Nickel	3.06	+/-20	U	40.0	P	07/11/2025	02:40	LB136428
	Potassium	918	+/-1000	U	2000	P	07/11/2025	02:40	LB136428
	Selenium	9.64	+/-10	U	20.0	P	07/11/2025	02:40	LB136428
	Silver	1.62	+/-5	U	10.0	P	07/11/2025	02:40	LB136428
	Sodium	868	+/-1000	U	2000	P	07/11/2025	02:40	LB136428
	Thallium	4.38	+/-20	U	40.0	P	07/11/2025	02:40	LB136428
	Vanadium	6.26	+/-20	U	40.0	P	07/11/2025	02:40	LB136428
	Zinc	16.7	+/-20	U	40.0	P	07/11/2025	02:40	LB136428

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2529

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168776BL		SOLID		Batch Number:	PB168776		Prep Date:	07/09/2025	
	Mercury	0.0070	<0.012	U	0.012	CV	07/10/2025	09:42	LB136417

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith

SDG No.: Q2529

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168770BL	SOLID			Batch Number:	PB168770		Prep Date:	07/09/2025	
	Aluminum	0.84	<2.5	U	5.00	P	07/10/2025	18:48	LB136428
	Antimony	0.22	<1.25	U	2.50	P	07/10/2025	18:48	LB136428
	Arsenic	0.19	<0.5	U	1.00	P	07/10/2025	18:48	LB136428
	Barium	0.73	<2.5	U	5.00	P	07/10/2025	18:48	LB136428
	Beryllium	0.025	<0.15	U	0.30	P	07/10/2025	18:48	LB136428
	Cadmium	0.024	<0.15	U	0.30	P	07/10/2025	18:48	LB136428
	Calcium	11.1	<50	U	100	P	07/10/2025	18:48	LB136428
	Chromium	0.047	<0.25	U	0.50	P	07/10/2025	18:48	LB136428
	Cobalt	0.10	<0.75	U	1.50	P	07/10/2025	18:48	LB136428
	Copper	0.22	<0.5	U	1.00	P	07/10/2025	18:48	LB136428
	Iron	3.99	<2.5	U	5.00	P	07/10/2025	18:48	LB136428
	Lead	0.13	<0.3	U	0.60	P	07/10/2025	18:48	LB136428
	Magnesium	12.0	<50	U	100	P	07/10/2025	18:48	LB136428
	Manganese	0.14	<0.5	U	1.00	P	07/10/2025	18:48	LB136428
	Nickel	0.13	<1	U	2.00	P	07/10/2025	18:48	LB136428
	Potassium	27.7	<50	U	100	P	07/10/2025	18:48	LB136428
	Selenium	0.26	<0.5	U	1.00	P	07/10/2025	18:48	LB136428
	Silver	0.12	<0.25	U	0.50	P	07/10/2025	18:48	LB136428
	Sodium	17.8	<50	U	100	P	07/10/2025	18:48	LB136428
	Thallium	0.23	<1	U	2.00	P	07/10/2025	18:48	LB136428
	Vanadium	0.25	<1	U	2.00	P	07/10/2025	18:48	LB136428
	Zinc	0.23	<1	U	2.00	P	07/10/2025	18:48	LB136428

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>CDM Smith</u>	SDG No.: <u>Q2529</u>
Contract: <u>CAMP02</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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	261000	255000	102	216000	294000	07/10/2025	18:14	LB136428
	Antimony	-0.046			-50	50	07/10/2025	18:14	LB136428
	Arsenic	9.78			-20	20	07/10/2025	18:14	LB136428
	Barium	1.97	6.0	33	-94	106	07/10/2025	18:14	LB136428
	Beryllium	1.64			-6	6	07/10/2025	18:14	LB136428
	Cadmium	-0.15	1.0	15	-5	7	07/10/2025	18:14	LB136428
	Calcium	243000	245000	99	208000	282000	07/10/2025	18:14	LB136428
	Chromium	58.9	52.0	113	42	62	07/10/2025	18:14	LB136428
	Cobalt	2.92			-30	30	07/10/2025	18:14	LB136428
	Copper	-1.93	2.0	96	-18	22	07/10/2025	18:14	LB136428
	Iron	104000	101000	103	85600	116500	07/10/2025	18:14	LB136428
	Lead	-4.02			-12	12	07/10/2025	18:14	LB136428
	Magnesium	260000	255000	102	216000	294000	07/10/2025	18:14	LB136428
	Manganese	2.39	7.0	34	-13	27	07/10/2025	18:14	LB136428
	Nickel	19.7	2.0	985	-38	42	07/10/2025	18:14	LB136428
	Potassium	253			0	0	07/10/2025	18:14	LB136428
	Selenium	-5.79			-20	20	07/10/2025	18:14	LB136428
	Silver	-0.013			-10	10	07/10/2025	18:14	LB136428
	Sodium	202			0	0	07/10/2025	18:14	LB136428
	Thallium	-1.63			-40	40	07/10/2025	18:14	LB136428
	Vanadium	5.55			-40	40	07/10/2025	18:14	LB136428
	Zinc	4.88			-40	40	07/10/2025	18:14	LB136428
ICSAB01	Aluminum	258000	247000	104	209000	285000	07/10/2025	18:18	LB136428
	Antimony	578	618	94	525	711	07/10/2025	18:18	LB136428
	Arsenic	105	104	101	88.4	120	07/10/2025	18:18	LB136428
	Barium	487	537	91	437	637	07/10/2025	18:18	LB136428
	Beryllium	484	495	98	420	570	07/10/2025	18:18	LB136428
	Cadmium	952	972	98	826	1120	07/10/2025	18:18	LB136428
	Calcium	240000	235000	102	199000	271000	07/10/2025	18:18	LB136428
	Chromium	552	542	102	460	624	07/10/2025	18:18	LB136428
	Cobalt	481	476	101	404	548	07/10/2025	18:18	LB136428
	Copper	461	511	90	434	588	07/10/2025	18:18	LB136428
	Iron	99900	99300	101	84400	114500	07/10/2025	18:18	LB136428
	Lead	39.5	49.0	81	37	61	07/10/2025	18:18	LB136428
	Magnesium	257000	248000	104	210000	286000	07/10/2025	18:18	LB136428
	Manganese	478	507	94	430	584	07/10/2025	18:18	LB136428
	Nickel	974	954	102	810	1100	07/10/2025	18:18	LB136428
	Potassium	87.2			0	0	07/10/2025	18:18	LB136428
	Selenium	48.9	46.0	106	26	66	07/10/2025	18:18	LB136428
	Silver	203	201	101	170	232	07/10/2025	18:18	LB136428
	Sodium	163			0	0	07/10/2025	18:18	LB136428
	Thallium	94.8	108	88	68	148	07/10/2025	18:18	LB136428

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>CDM Smith</u>	SDG No.: <u>Q2529</u>
Contract: <u>CAMP02</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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	475	491	97	417	565	07/10/2025	18:18	LB136428
	Zinc	1070	952	112	809	1095	07/10/2025	18:18	LB136428



METAL QC DATA

A

B

C

D

E

F

G

H

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	CDM Smith	level:	low	sdg no.:	Q2529
contract:	CAMP02			lab code:	ACE
matrix:	Solid	sample id:	Q2517-01	client id:	TP-14MS

Percent Solids for Sample:	87.8	Spiked ID:	Q2517-01MS	Percent Solids for Spike Sample:	87.8
----------------------------	------	------------	------------	----------------------------------	------

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.32		0.028		0.3	99		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	CDM Smith	level:	low	sdg no.:	Q2529
contract:	CAMP02			lab code:	ACE
matrix:	Solid	sample id:	Q2517-01	client id:	TP-14MSD

Percent Solids for Sample:	87.8	Spiked ID:	Q2517-01MSD	Percent Solids for Spike Sample:	87.8
----------------------------	------	------------	-------------	----------------------------------	------

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.32		0.028		0.3	98		CV

metals
- 5a -
MATRIX SPIKE SUMMARY

client: CDM Smith	level: low	sdg no.: Q2529
contract: CAMP02		lab code: ACE
matrix: Solid	sample id: Q2529-06	client id: TP-102MS
Percent Solids for Sample: 95.6	Spiked ID: Q2529-06MS	Percent Solids for Spike Sample: 95.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	3990		2060		98.2	1972		P
Antimony	mg/Kg	75 - 125	18.6		2.28	U	39.3	47	N	P
Arsenic	mg/Kg	75 - 125	35.1		2.65		39.3	83		P
Barium	mg/Kg	75 - 125	20.6		8.89		9.8	119		P
Beryllium	mg/Kg	75 - 125	8.63		0.36		9.8	84		P
Cadmium	mg/Kg	75 - 125	8.48		0.27	U	9.8	86		P
Calcium	mg/Kg	75 - 125	142		41.6	J	49.1	205	N	P
Chromium	mg/Kg	75 - 125	23.3		3.17		19.6	103		P
Cobalt	mg/Kg	75 - 125	10.8		1.54		9.8	94		P
Copper	mg/Kg	75 - 125	15.4		2.26		14.7	90		P
Iron	mg/Kg	75 - 125	11500		9030		150	1630		P
Lead	mg/Kg	75 - 125	44.6		2.41		49.1	86		P
Magnesium	mg/Kg	75 - 125	298		158		98.2	143	N	P
Manganese	mg/Kg	75 - 125	49.2		30.5		9.8	191	N	P
Nickel	mg/Kg	75 - 125	24.2		1.60	J	24.6	92		P
Potassium	mg/Kg	75 - 125	647		142		490	103		P
Selenium	mg/Kg	75 - 125	77.0		0.91	U	98.2	78		P
Silver	mg/Kg	75 - 125	3.22		0.46	U	3.7	87		P
Sodium	mg/Kg	75 - 125	406		210		150	131	N	P
Thallium	mg/Kg	75 - 125	86.7		1.83	U	98.2	88		P
Vanadium	mg/Kg	75 - 125	29.0		13.2		14.7	108		P
Zinc	mg/Kg	75 - 125	19.4		7.14		9.8	125		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith	level: low	sdg no.: Q2529
contract: CAMP02		lab code: ACE
matrix: Solid	sample id: Q2529-06	client id: TP-102MSD
Percent Solids for Sample: 95.6	Spiked ID: Q2529-06MSD	Percent Solids for Spike Sample: 95.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	3690		2060		91.0	1798		P
Antimony	mg/Kg	75 - 125	17.2		2.28	U	36.4	47	N	P
Arsenic	mg/Kg	75 - 125	32.7		2.65		36.4	83		P
Barium	mg/Kg	75 - 125	18.9		8.89		9.1	110		P
Beryllium	mg/Kg	75 - 125	8.09		0.36		9.1	85		P
Cadmium	mg/Kg	75 - 125	7.91		0.27	U	9.1	87		P
Calcium	mg/Kg	75 - 125	128		41.6	J	45.5	189	N	P
Chromium	mg/Kg	75 - 125	21.7		3.17		18.2	102		P
Cobalt	mg/Kg	75 - 125	9.97		1.54		9.1	93		P
Copper	mg/Kg	75 - 125	14.5		2.26		13.6	90		P
Iron	mg/Kg	75 - 125	10400		9030		140	989		P
Lead	mg/Kg	75 - 125	41.5		2.41		45.5	86		P
Magnesium	mg/Kg	75 - 125	274		158		91.0	127	N	P
Manganese	mg/Kg	75 - 125	45.3		30.5		9.1	163	N	P
Nickel	mg/Kg	75 - 125	22.5		1.60	J	22.7	92		P
Potassium	mg/Kg	75 - 125	591		142		450	100		P
Selenium	mg/Kg	75 - 125	71.3		0.91	U	91.0	78		P
Silver	mg/Kg	75 - 125	2.89		0.46	U	3.4	85		P
Sodium	mg/Kg	75 - 125	371		210		140	115		P
Thallium	mg/Kg	75 - 125	76.7		1.83	U	91.0	84		P
Vanadium	mg/Kg	75 - 125	26.7		13.2		13.6	99		P
Zinc	mg/Kg	75 - 125	17.9		7.14		9.1	118		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: <u>CDM Smith</u>	SDG No.: <u>Q2529</u>	
Contract: <u>CAMP02</u>	Lab Code: <u>ACE</u>	
Matrix: <u>Solid</u>	Level: <u>LOW</u>	Client ID: <u>TP-102A</u>
Sample ID: <u>Q2529-06</u>	Spiked ID: <u>Q2529-06A</u>	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	32.9		2.28	U	36.5	90		P
Calcium	mg/Kg	75 - 125	81.3	J	41.6	J	45.7	87		P
Magnesium	mg/Kg	75 - 125	235		158		91.4	84		P
Manganese	mg/Kg	75 - 125	38.3		30.5		9.10	86		P
Sodium	mg/Kg	75 - 125	342		210		140	95		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2529</u>
Contract:	<u>CAMP02</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2517-01</u>	Client ID:	<u>TP-14DUP</u>
Percent Solids for Sample:	87.8	Duplicate ID	Q2517-01DUP	Percent Solids for Spike Sample:	87.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.028		0.028		0		CV

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2529</u>
Contract:	<u>CAMP02</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2517-01MS</u>	Client ID:	<u>TP-14MSD</u>
Percent Solids for Sample:	87.8	Duplicate ID	Q2517-01MSD	Percent Solids for Spike Sample:	87.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.32		0.32		1		CV

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2529</u>
Contract:	<u>CAMP02</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2529-06</u>	Client ID:	<u>TP-102DUP</u>
Percent Solids for Sample:	95.6	Duplicate ID	Q2529-06DUP	Percent Solids for Spike Sample:	95.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	2060		1980		4		P
Antimony	mg/Kg	20	2.28	U	2.31	U			P
Arsenic	mg/Kg	20	2.65		2.60		2		P
Barium	mg/Kg	20	8.89		8.15		9		P
Beryllium	mg/Kg	20	0.36		0.35		4		P
Cadmium	mg/Kg	20	0.27	U	0.28	U			P
Calcium	mg/Kg	20	41.6	J	22.8	J	58		P
Chromium	mg/Kg	20	3.17		3.48		9		P
Cobalt	mg/Kg	20	1.54		1.62		5		P
Copper	mg/Kg	20	2.26		2.60		14		P
Iron	mg/Kg	20	9030		8470		6		P
Lead	mg/Kg	20	2.41		2.35		3		P
Magnesium	mg/Kg	20	158		159		1		P
Manganese	mg/Kg	20	30.5		32.2		5		P
Nickel	mg/Kg	20	1.60	J	1.60	J	0		P
Potassium	mg/Kg	20	142		138		3		P
Selenium	mg/Kg	20	0.91	U	0.93	U			P
Silver	mg/Kg	20	0.46	U	0.46	U			P
Sodium	mg/Kg	20	210		204		3		P
Thallium	mg/Kg	20	1.83	U	1.85	U			P
Vanadium	mg/Kg	20	13.2		12.6		5		P
Zinc	mg/Kg	20	7.14		6.90		3		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2529</u>
Contract:	<u>CAMP02</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>Q2529-06MS</u>	Client ID:	<u>TP-102MSD</u>
Percent Solids for Sample:	95.6	Duplicate ID	Q2529-06MSD	Percent Solids for Spike Sample:	95.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	3990		3690		8		P
Antimony	mg/Kg	20	18.6		17.2		8		P
Arsenic	mg/Kg	20	35.1		32.7		7		P
Barium	mg/Kg	20	20.6		18.9		9		P
Beryllium	mg/Kg	20	8.63		8.09		6		P
Cadmium	mg/Kg	20	8.48		7.91		7		P
Calcium	mg/Kg	20	142		128		10		P
Chromium	mg/Kg	20	23.3		21.7		7		P
Cobalt	mg/Kg	20	10.8		9.97		8		P
Copper	mg/Kg	20	15.4		14.5		6		P
Iron	mg/Kg	20	11500		10400		10		P
Lead	mg/Kg	20	44.6		41.5		7		P
Magnesium	mg/Kg	20	298		274		8		P
Manganese	mg/Kg	20	49.2		45.3		8		P
Nickel	mg/Kg	20	24.2		22.5		7		P
Potassium	mg/Kg	20	647		591		9		P
Selenium	mg/Kg	20	77.0		71.3		8		P
Silver	mg/Kg	20	3.22		2.89		11		P
Sodium	mg/Kg	20	406		371		9		P
Thallium	mg/Kg	20	86.7		76.7		12		P
Vanadium	mg/Kg	20	29.0		26.7		8		P
Zinc	mg/Kg	20	19.4		17.9		8		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith SDG No.: Q2529
Contract: CAMP02 Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168770BS							
Aluminum	mg/Kg	100	102		102	80 - 120	P
Antimony	mg/Kg	40.0	41.8		104	80 - 120	P
Arsenic	mg/Kg	40.0	40.3		101	80 - 120	P
Barium	mg/Kg	10.0	10.2		102	80 - 120	P
Beryllium	mg/Kg	10.0	10.4		104	80 - 120	P
Cadmium	mg/Kg	10.0	9.97		100	80 - 120	P
Calcium	mg/Kg	50.0	51.5	J	103	80 - 120	P
Chromium	mg/Kg	20.0	21.1		106	80 - 120	P
Cobalt	mg/Kg	10.0	10.2		102	80 - 120	P
Copper	mg/Kg	15.0	16.1		107	80 - 120	P
Iron	mg/Kg	150	154		103	80 - 120	P
Lead	mg/Kg	50.0	49.7		99	80 - 120	P
Magnesium	mg/Kg	100	104		104	80 - 120	P
Manganese	mg/Kg	10.0	10.7		107	80 - 120	P
Nickel	mg/Kg	25.0	25.6		102	80 - 120	P
Potassium	mg/Kg	500	520		104	80 - 120	P
Selenium	mg/Kg	100	102		102	80 - 120	P
Silver	mg/Kg	3.8	3.65		96	80 - 120	P
Sodium	mg/Kg	150	154		103	80 - 120	P
Thallium	mg/Kg	100	102		102	80 - 120	P
Vanadium	mg/Kg	15.0	15.7		105	80 - 120	P
Zinc	mg/Kg	10.0	10.9		109	80 - 120	P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>CDM Smith</u>	SDG No.:	<u>Q2529</u>
Contract:	<u>CAMP02</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168776BS Mercury	mg/Kg	0.25	0.22		90	80 - 120	CV

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

TP-14L

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **Lb No.:** lb136417 **Lab Sample ID :** Q2517-01L **SDG No.:** Q2529
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.028	0.074 U	100.0		CV

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

TP-102L

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **Lb No.:** lb136428 **Lab Sample ID :** Q2529-06L **SDG No.:** Q2529
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ-ence	Q	M
Aluminum	2060		2120		3		P
Antimony	2.28	U	11.4	U			P
Arsenic	2.65		2.20	J	17		P
Barium	8.89		8.46	J	5		P
Beryllium	0.36		0.38	J	5		P
Cadmium	0.27	U	1.37	U			P
Calcium	41.6	J	457	U	100.0		P
Chromium	3.17		3.21		1		P
Cobalt	1.54		1.47	J	4		P
Copper	2.26		2.82	J	25		P
Iron	9030		8790		3		P
Lead	2.41		2.39	J	1		P
Magnesium	158		158	J	0		P
Manganese	30.5		31.1		2		P
Nickel	1.60	J	1.48	J	8		P
Potassium	142		457	U	100.0		P
Selenium	0.91	U	4.57	U			P
Silver	0.46	U	2.28	U			P
Sodium	210		203	J	3		P
Thallium	1.83	U	9.14	U			P
Vanadium	13.2		13.4		2		P
Zinc	7.14		6.45	J	10		P



METAL PREPARATION & INSTRUMENT DATA

A

B

C

D

E

F

G

H

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2529

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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2529

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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2529

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

Metals

- 11 -

ICP INTERELEMEN CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2529

Contract: CAMP02

Lab Code: ACE

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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

Metals

- 11 -

ICP INTERELEMEN CORRECTION FACTORS

Client: CDM Smith

SDG No.: Q2529

Contract: CAMP02

Lab Code: ACE

Instrument ID:

Date:

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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

A

B

C

D

E

F

G

H

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2529
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: PB168770							
PB168770BL	PB168770BL	MB	SOLID	07/09/2025	2.00	100.0	100.00
PB168770BS	PB168770BS	LCS	SOLID	07/09/2025	2.00	100.0	100.00
Q2529-01	TP-91	SAM	SOLID	07/09/2025	2.26	100.0	90.90
Q2529-02	TP-80	SAM	SOLID	07/09/2025	2.40	100.0	90.70
Q2529-03	TP-79	SAM	SOLID	07/09/2025	2.28	100.0	90.60
Q2529-04	TP-95	SAM	SOLID	07/09/2025	2.19	100.0	83.70
Q2529-05	TP-98	SAM	SOLID	07/09/2025	2.44	100.0	86.90
Q2529-06	TP-102	SAM	SOLID	07/09/2025	2.29	100.0	95.60
Q2529-06DUP	TP-102DUP	DUP	SOLID	07/09/2025	2.26	100.0	95.60
Q2529-06MS	TP-102MS	MS	SOLID	07/09/2025	2.13	100.0	95.60
Q2529-06MSD	TP-102MSD	MSD	SOLID	07/09/2025	2.30	100.0	95.60
Q2529-07	TP-101	SAM	SOLID	07/09/2025	2.31	100.0	89.70
Q2529-08	TP-89	SAM	SOLID	07/09/2025	2.23	100.0	90.10
Q2529-09	TP-33	SAM	SOLID	07/09/2025	2.31	100.0	90.50
Q2529-10	TP-30	SAM	SOLID	07/09/2025	2.15	100.0	91.40

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2529
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: PB168776							
PB168776BL	PB168776BL	MB	SOLID	07/09/2025	0.59	35.0	100.00
PB168776BS	PB168776BS	LCS	SOLID	07/09/2025	0.57	35.0	100.00
Q2517-01DUP	TP-14DUP	DUP	SOLID	07/09/2025	0.53	35.0	87.80
Q2517-01MS	TP-14MS	MS	SOLID	07/09/2025	0.53	35.0	87.80
Q2517-01MSD	TP-14MSD	MSD	SOLID	07/09/2025	0.54	35.0	87.80
Q2529-01	TP-91	SAM	SOLID	07/09/2025	0.52	35.0	90.90
Q2529-02	TP-80	SAM	SOLID	07/09/2025	0.51	35.0	90.70
Q2529-03	TP-79	SAM	SOLID	07/09/2025	0.50	35.0	90.60
Q2529-04	TP-95	SAM	SOLID	07/09/2025	0.51	35.0	83.70
Q2529-05	TP-98	SAM	SOLID	07/09/2025	0.55	35.0	86.90
Q2529-06	TP-102	SAM	SOLID	07/09/2025	0.58	35.0	95.60
Q2529-07	TP-101	SAM	SOLID	07/09/2025	0.52	35.0	89.70
Q2529-08	TP-89	SAM	SOLID	07/09/2025	0.50	35.0	90.10
Q2529-09	TP-33	SAM	SOLID	07/09/2025	0.60	35.0	90.50
Q2529-10	TP-30	SAM	SOLID	07/09/2025	0.56	35.0	91.40

metals
- 14 -
ANALYSIS RUN LOG

Client: CDM Smith

Contract: CAMP02

Lab code: ACE

Sdg no.: Q2529

Instrument id number: _____

Method: _____

Run number: LB136417

Start date: 07/10/2025

End date: 07/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0902	HG
S0.2	S0.2	1	0904	HG
S2.5	S2.5	1	0906	HG
S5	S5	1	0909	HG
S7.5	S7.5	1	0914	HG
S10	S10	1	0919	HG
ICV23	ICV23	1	0922	HG
ICB23	ICB23	1	0924	HG
CCV74	CCV74	1	0927	HG
CCB74	CCB74	1	0932	HG
CRA	CRA	1	0934	HG
PB168776BL	PB168776BL	1	0942	HG
PB168776BS	PB168776BS	1	0944	HG
Q2517-01DUP	TP-14DUP	1	0949	HG
Q2517-01MS	TP-14MS	1	0951	HG
Q2517-01MSD	TP-14MSD	1	0954	HG
CCV75	CCV75	1	0959	HG
CCB75	CCB75	1	1004	HG
Q2529-01	TP-91	1	1008	HG
Q2529-02	TP-80	1	1010	HG
Q2529-03	TP-79	1	1013	HG
Q2529-04	TP-95	1	1015	HG
Q2529-05	TP-98	1	1017	HG
Q2529-06	TP-102	1	1020	HG
Q2529-07	TP-101	1	1022	HG
Q2529-08	TP-89	1	1024	HG
Q2529-09	TP-33	1	1026	HG
CCV76	CCV76	1	1029	HG
CCB76	CCB76	1	1031	HG
Q2529-10	TP-30	1	1033	HG
Q2517-01L	TP-14L	5	1036	HG
CCV77	CCV77	1	1040	HG
CCB77	CCB77	1	1042	HG

metals
- 14 -
ANALYSIS RUN LOG

Client: CDM Smith

Contract: CAMP02

Lab code: ACE

Sdg no.: Q2529

Instrument id number:

Method:

Run number: LB136428

Start date: 07/10/2025

End date: 07/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1727	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	1731	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	1736	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	1740	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	1744	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	1748	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	1752	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	1801	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	1805	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	1809	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	1814	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	1818	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	1840	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	1844	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168770BL	PB168770BL	1	1848	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168770BS	PB168770BS	1	1852	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	1930	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	1934	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	2022	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	2036	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-01	TP-91	1	2058	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-02	TP-80	1	2103	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-03	TP-79	1	2107	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-04	TP-95	1	2111	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-05	TP-98	1	2115	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-06	TP-102	1	2119	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-06DUP	TP-102DUP	1	2123	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	2127	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	2131	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-06L	TP-102L	5	2135	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-06MS	TP-102MS	1	2144	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-06MSD	TP-102MSD	1	2148	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-06A	TP-102A	1	2152	Ca,Mg,Mn,Na,Sb
Q2529-07	TP-101	1	2156	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-08	TP-89	1	2200	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-09	TP-33	1	2204	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2529-10	TP-30	1	2209	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	2225	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	2231	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2327	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	2331	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
- 14 -
ANALYSIS RUN LOG

Client: CDM Smith

Contract: CAMP02

Lab code: ACE

Sdg no.: Q2529

Instrument id number:

Method:

Run number: LB136428

Start date: 07/10/2025

End date: 07/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV07	CCV07	1	0018	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	0022	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	0109	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	0114	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	0158	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	0203	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	0236	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	0240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

A

B

C

D

E

F

G

H



SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING 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:

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: FELIPE CONTRERAS
e-mail: ENCINAS.MA@CDMSMITH.COM
PHONE: 7325904679 FAX:

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY: EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

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

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

1. TCL VOC 2. TCL SVOC 3. TAL METALS 4. PESTICIDES 5. HERBICIDES 6. PCB'S 7. DRUGS 8. GRO

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9		
1.	TP-91	S	X		7/3/25	1335	6	X	X	X	X	X	X	X			E	
2.	TP-80	S	X		7/7/25	0830	6	X	X	X	X	X	X	X			E	
3.	TP-79	S	X		7/7/25	0930	6	X	X	X	X	X	X	X			E	
4.	TP-95	S	X		7/7/25	1025	6	X	X	X	X	X	X	X			E	
5.	TP-98	S	X		7/7/25	1100	6	X	X	X	X	X	X	X			E	
6.	TP-102	S	X		7/7/25	1200	6	X	X	X	X	X	X	X			E	
7.	TP-101	S	X		7/7/25	1505	6	X	X	X	X	X	X	X			E	
8.	TP-89	S	X		7/8/25	0810	6	X	X	X	X	X	X	X			E	
9.	TP-33	S	X		7/8/25	1015	6	X	X	X	X	X	X	X			E	
10.	TP-30	S	X		7/8/25	1145	6	X	X	X	X	X	X	X			E	

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

RELINQUISHED BY SAMPLER: 1. [Signature]	DATE/TIME: 7/8/25/1422	RECEIVED BY: [Signature] 1422	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY: [Signature] 7-8-25	Comments:
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 1530 7825	RECEIVED BY: [Signature]	Page ____ of ____ CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

Laboratory Certification

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



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

13

13.3

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2529	CAMP02	Order Date : 7/8/2025 3:36:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 2 <i>MR</i>
Client Contact : Marcie Ann Encinas		Receive DateTime : 7/8/2025 3:30:00 PM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order :	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2529-01	TP-91	Solid	07/03/2025	13:35	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-02	TP-80	Solid	07/07/2025	08:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-03	TP-79	Solid	07/07/2025	09:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-04	TP-95	Solid	07/07/2025	10:25	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-05	TP-98	Solid	07/07/2025	11:00	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-06	TP-102	Solid	07/07/2025	12:00	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-07	TP-101	Solid	07/07/2025	15:05	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-08	TP-89	Solid	07/08/2025	08:10					



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2529 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 7/8/2025 3:36:00 PM
Project Name : South River WM Replacem
Receive DateTime : 7/8/2025 3:30:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 2 *2-4*
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-09	TP-33	Solid	07/08/2025	10:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2529-10	TP-30	Solid	07/08/2025	11:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By: *[Signature]*

Date / Time :

7-8-25 1615

Received By: *JC*

Date / Time :

7/8/25 1615

Storage Area : VOA Refridgerator Room