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

DATA PACKAGE

METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : SOUTH RIVER WM REPLACEMENT

CDM SMITH

110 Fieldcrest Ave

Raritan Center

Edison, NJ - 08837

Phone No: 732-225-7000

ORDER ID : Q2436

ATTENTION : Marcie Ann Encinas

Laboratory Certification ID # 20012

Table Of Contents for Q2436

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

Cover Page

Order ID : Q2436

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number	Client Sample Number
Q2436-01	TP-70
Q2436-02	TP-69
Q2436-03	TP-85
Q2436-04	TP-86
Q2436-05	TP-84
Q2436-06	TP-83
Q2436-07	TP-87
Q2436-08	TP-100
Q2436-09	TP-99
Q2436-10	TP-82

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

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:58 am, Jul 10, 2025

Date: 7/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2436
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 06/26/2025.

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The RPD met criteria.
The Blank Spike met requirements for all samples.
The Blank Spike Duplicate met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration 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.

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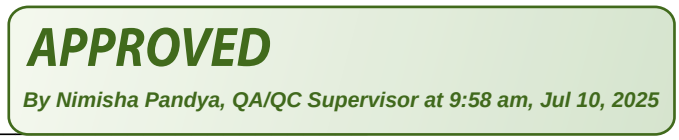
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value 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 

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2436
Test Name: Gasoline Range Organics

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 06/26/2025.

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 Gasoline Range Organics.

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

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

E. Additional Comments:
Sample TP-86 was 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.

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

Signature APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:59 am, Jul 10, 2025

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

CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2436
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 06/26/2025.

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 SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .

The RPD for {Q2430-01MSD} with File ID: BF142922.D met criteria except for 4-Chloroaniline[48%], Benzo(g,h,i)perylene[38%], Dibenz(a,h)anthracene[24%] and Indeno(1,2,3-cd)pyrene[27%],due to difference in results of MS and MSD.

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 BF142941.D met the requirements except for 4-Nitrophenol,is marginally biased low therefore no Corrective action was taken.
The Tuning criteria met requirements.

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

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 

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CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2436
Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 06/26/2025.

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 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 met the acceptable criteria except for TP-100 [Tetrachloro-m-xylene(2) - 1%]. As per method one surrogate allowed to fail to meet the criteria per column. No further corrective action was taken.

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 PD089226.D met the requirements except for delta-BHC is failing in 1st column, however it is passed in 2nd column therefore no corrective action was taken.

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E. Additional Comments:

Sample TP-87 was reported with J flag on form 1 for compound 4,4-DDE based on reporting criteria of high concentration from both column. Now for other column compound detection is below MDL therefore it is not detecting on form 10.

Sample TP-99 was reported with J flag on form 1 for compound 4,4-DDT based on reporting criteria of high concentration from both column. Now for other column compound detection is below MDL therefore it is not detecting on form 10.

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

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

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

Signature___ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:01 am, Jul 10, 2025

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

CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2436
Test Name: PCB

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 06/26/2025.

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 PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

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

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

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

---

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

Signature APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:02 am, Jul 10, 2025

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

CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2436
Test Name: Herbicide

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 06/26/2025.

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 Herbicide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of Herbicides was based on method 8151A and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.

The MS {Q2436-10MS} with File ID: PS030896.D recoveries met the acceptable requirements except for [Dinoseb(1) - 0%], [Dinoseb(2) - 0%] due to matrix interference.

The MSD {Q2436-10MSD} with File ID: PS030897.D recoveries met the acceptable requirements except for [Dinoseb(1) - 0%], [Dinoseb(2) - 0%] due to matrix interference.

The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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

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

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

Signature____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:02 am, Jul 10, 2025

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

CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2436
Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 06/26/2025.

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 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 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 met the acceptable criteria.
The Retention Times were acceptable for all samples.

The MS {Q2413-01MS} with File ID: FF016048.D recoveries met the requirements for all compounds except for DRO[38%] due to matrix interference.

The MSD {Q2413-01MSD} with File ID: FF016049.D recoveries met the acceptable requirements except for DRO[34%] due to matrix interference.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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

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

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Signature APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:02 am, Jul 10, 2025

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

CASE NARRATIVE

CDM Smith
Project Name: South River WM Replacement
Project # N/A
Order ID # Q2436
Test Name: Mercury,Metals ICP-TAL

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 06/26/2025.

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 (TP-82DUP) analysis met criteria for all parameters except for Cobalt and Manganese due to unknown sample matrix interference.
The Duplicate (TP-82MSD) analysis met criteria for all parameters except for Manganese due to Chemical Interference during Digestion process.
The Matrix Spike (TP-82MS) analysis met criteria for all parameters except for Antimony, Calcium and Magnesium due to Chemical Interference during Digestion process.
The Matrix Spike Duplicate (TP-82MSD) analysis met criteria for all parameters except for Antimony, Barium, 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 the acceptable requirements.

E. Additional Comments:
The Post Digest Spike (TP-82A) analysis met criteria for all parameters except for Manganese due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

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

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:05 am, Jul 10, 2025

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

284 Sheffield Street, Mountainside NJ 07092 Tel.
908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2436

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

QA Review Signature: MOHAMMAD AHMED **Date:** 07/10/2025

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

LAB CHRONICLE

OrderID:	Q2436	**OrderDate:**	6/26/2025 3:41:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2436-01	**TP-70**	**SOIL**			**06/25/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	
Q2436-02	**TP-69**	**SOIL**			**06/25/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	
Q2436-03	**TP-85**	**SOIL**			**06/25/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/30/25	
Q2436-04	**TP-86**	**SOIL**			**06/25/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/30/25	
Q2436-05	**TP-84**	**SOIL**			**06/25/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/30/25	
Q2436-06	**TP-83**	**SOIL**			**06/25/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	
Q2436-07	**TP-87**	**SOIL**			**06/26/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	
Q2436-08	**TP-100**	**SOIL**			**06/26/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	
Q2436-09	**TP-99**	**SOIL**			**06/26/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	
Q2436-10	**TP-82**	**SOIL**			**06/26/25**			**06/26/25**
			VOC-TCLVOA-10	8260D			06/27/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2436

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**TP-70**								
Q2436-01	TP-70	SOIL	Acetone		18.5	J	4.10	21.5	ug/Kg
Q2436-01	TP-70	SOIL	Methylene Chloride		4.10	J	3.00	8.60	ug/Kg
			Total Voc :		22.6				
Q2436-01	TP-70	SOIL	Hexane, 3-methyl-	*	4.70	J	0	0	ug/Kg
Q2436-01	TP-70	SOIL	Heptane, 3-methyl-	*	4.40	J	0	0	ug/Kg
Q2436-01	TP-70	SOIL	2-Ethyl-oxetane	*	4.80	J	0	0	ug/Kg
			Total Tics :		13.9				
			Total Concentration:		36.5				
Client ID:	**TP-69**								
Q2436-02	TP-69	SOIL	Acetone		77.9		4.40	23.4	ug/Kg
Q2436-02	TP-69	SOIL	Methylene Chloride		5.90	J	3.30	9.40	ug/Kg
Q2436-02	TP-69	SOIL	2-Butanone		9.80	J	6.10	23.4	ug/Kg
			Total Voc :		93.6				
			Total Concentration:		93.6				
Client ID:	**TP-85**								
Q2436-03	TP-85	SOIL	Acetone		33.3		4.10	21.7	ug/Kg
Q2436-03	TP-85	SOIL	Carbon Disulfide		0.99	J	0.92	4.30	ug/Kg
Q2436-03	TP-85	SOIL	Methylene Chloride		4.90	J	3.10	8.70	ug/Kg
			Total Voc :		39.2				
			Total Concentration:		39.2				
Client ID:	**TP-86**								
Q2436-04	TP-86	SOIL	Methylene Chloride		6.10	J	3.30	9.30	ug/Kg
			Total Voc :		6.10				
Q2436-04	TP-86	SOIL	Diethyl Ether	*	1.80	J	0.72	4.70	ug/Kg
			Total Tics :		1.80				
			Total Concentration:		7.90				
Client ID:	**TP-84**								
Q2436-05	TP-84	SOIL	Methylene Chloride		4.10	J	3.10	8.80	ug/Kg
			Total Voc :		4.10				
			Total Concentration:		4.10				
Client ID:	**TP-100**								
Q2436-08	TP-100	SOIL	Methylene Chloride		3.40	J	2.90	8.20	ug/Kg
			Total Voc :		3.40				
			Total Concentration:		3.40				
Client ID:	**TP-82**								
Q2436-10	TP-82	SOIL	Methylene Chloride		3.60	J	3.30	9.50	ug/Kg
			Total Voc :		3.60				
			Total Concentration:		3.60				

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.1
Sample Wt/Vol:	7.07 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022856.D	1		06/27/25 12:59	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.98	U	0.98	4.30	ug/Kg
74-87-3	Chloromethane	0.98	U	0.98	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.68	U	0.68	4.30	ug/Kg
74-83-9	Bromomethane	0.92	U	0.92	4.30	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.91	U	0.91	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.86	U	0.86	4.30	ug/Kg
67-64-1	Acetone	18.5	J	4.10	21.5	ug/Kg
75-15-0	Carbon Disulfide	0.91	U	0.91	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	4.10	J	3.00	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.74	U	0.74	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.68	U	0.68	4.30	ug/Kg
78-93-3	2-Butanone	5.60	U	5.60	21.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.84	U	0.84	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.65	U	0.65	4.30	ug/Kg
74-97-5	Bromochloromethane	0.99	U	0.99	4.30	ug/Kg
67-66-3	Chloroform	0.72	U	0.72	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.78	U	0.78	4.30	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.68	U	0.68	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.78	U	0.78	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.67	U	0.67	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.5	ug/Kg
108-88-3	Toluene	0.67	U	0.67	4.30	ug/Kg

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.1
Sample Wt/Vol:	7.07 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022856.D	1		06/27/25 12:59	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.5	ug/Kg
124-48-1	Dibromochloromethane	0.75	U	0.75	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.90	U	0.90	4.30	ug/Kg
108-90-7	Chlorobenzene	0.78	U	0.78	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.60	ug/Kg
95-47-6	o-Xylene	0.71	U	0.71	4.30	ug/Kg
100-42-5	Styrene	0.61	U	0.61	4.30	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.70	U	2.70	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.9		63 - 155	84%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		17 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	370000	7.713			
540-36-3	1,4-Difluorobenzene	661000	8.616			
3114-55-4	Chlorobenzene-d5	597000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	239000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.1
Sample Wt/Vol:	7.07 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022856.D	1		06/27/25 12:59	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1010386-40-2	2-Ethyl-oxetane	4.80	J		5.65	ug/Kg
000589-34-4	Hexane, 3-methyl-	4.70	J		7.92	ug/Kg
000589-81-1	Heptane, 3-methyl-	4.40	J		9.89	ug/Kg

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	6.51 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022857.D	1		06/27/25 13:22	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.74	U	0.74	4.70	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	4.70	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.99	U	0.99	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.94	U	0.94	4.70	ug/Kg
67-64-1	Acetone	77.9		4.40	23.4	ug/Kg
75-15-0	Carbon Disulfide	0.99	U	0.99	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.68	U	0.68	4.70	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.70	ug/Kg
75-09-2	Methylene Chloride	5.90	J	3.30	9.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.81	U	0.81	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.75	U	0.75	4.70	ug/Kg
110-82-7	Cyclohexane	0.74	U	0.74	4.70	ug/Kg
78-93-3	2-Butanone	9.80	J	6.10	23.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.91	U	0.91	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.70	U	0.70	4.70	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.70	ug/Kg
67-66-3	Chloroform	0.79	U	0.79	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.87	U	0.87	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.85	U	0.85	4.70	ug/Kg
71-43-2	Benzene	0.74	U	0.74	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.74	U	0.74	4.70	ug/Kg
79-01-6	Trichloroethene	0.76	U	0.76	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.85	U	0.85	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.73	U	0.73	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	23.4	ug/Kg
108-88-3	Toluene	0.73	U	0.73	4.70	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	6.51 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022857.D	1		06/27/25 13:22	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.61	U	0.61	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.86	U	0.86	4.70	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	23.4	ug/Kg
124-48-1	Dibromochloromethane	0.81	U	0.81	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.82	U	0.82	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.98	U	0.98	4.70	ug/Kg
108-90-7	Chlorobenzene	0.85	U	0.85	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.40	ug/Kg
95-47-6	o-Xylene	0.77	U	0.77	4.70	ug/Kg
100-42-5	Styrene	0.67	U	0.67	4.70	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.73	U	0.73	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.8		63 - 155	94%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	49.5		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		17 - 146	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	341000	7.713			
540-36-3	1,4-Difluorobenzene	626000	8.622			
3114-55-4	Chlorobenzene-d5	598000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	255000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82
Sample Wt/Vol:	6.51 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022857.D	1		06/27/25 13:22	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.1
Sample Wt/Vol:	6.77 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022877.D	1		06/30/25 13:32	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.99	U	0.99	4.30	ug/Kg
74-87-3	Chloromethane	0.99	U	0.99	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.69	U	0.69	4.30	ug/Kg
74-83-9	Bromomethane	0.93	U	0.93	4.30	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.92	U	0.92	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.87	U	0.87	4.30	ug/Kg
67-64-1	Acetone	33.3		4.10	21.7	ug/Kg
75-15-0	Carbon Disulfide	0.99	J	0.92	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.30	ug/Kg
75-09-2	Methylene Chloride	4.90	J	3.10	8.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.75	U	0.75	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	4.30	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	21.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.84	U	0.84	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.65	U	0.65	4.30	ug/Kg
74-97-5	Bromochloromethane	1.00	U	1.00	4.30	ug/Kg
67-66-3	Chloroform	0.73	U	0.73	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.81	U	0.81	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.79	U	0.79	4.30	ug/Kg
71-43-2	Benzene	0.69	U	0.69	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.79	U	0.79	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.68	U	0.68	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.7	ug/Kg
108-88-3	Toluene	0.68	U	0.68	4.30	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.1
Sample Wt/Vol:	6.77 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022877.D	1		06/30/25 13:32	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.54	U	0.54	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.7	ug/Kg
124-48-1	Dibromochloromethane	0.76	U	0.76	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.76	U	0.76	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.91	U	0.91	4.30	ug/Kg
108-90-7	Chlorobenzene	0.79	U	0.79	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.70	ug/Kg
95-47-6	o-Xylene	0.71	U	0.71	4.30	ug/Kg
100-42-5	Styrene	0.62	U	0.62	4.30	ug/Kg
75-25-2	Bromoform	0.75	U	0.75	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.68	U	0.68	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.50	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.40	U	1.40	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.30	U	1.30	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.60	U	2.60	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.80	U	2.80	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.5		63 - 155	91%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	49.9		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.2		17 - 146	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	373000	7.707			
540-36-3	1,4-Difluorobenzene	691000	8.61			
3114-55-4	Chlorobenzene-d5	658000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	284000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.1
Sample Wt/Vol:	6.77 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022877.D	1		06/30/25 13:32	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.7
Sample Wt/Vol:	6.03 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022878.D	1		06/30/25 14:28	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.74	U	0.74	4.70	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	4.70	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.99	U	0.99	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.93	U	0.93	4.70	ug/Kg
67-64-1	Acetone	4.40	U	4.40	23.4	ug/Kg
75-15-0	Carbon Disulfide	0.99	U	0.99	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.68	U	0.68	4.70	ug/Kg
79-20-9	Methyl Acetate	1.40	U	1.40	4.70	ug/Kg
75-09-2	Methylene Chloride	6.10	J	3.30	9.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.80	U	0.80	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.75	U	0.75	4.70	ug/Kg
110-82-7	Cyclohexane	0.74	U	0.74	4.70	ug/Kg
78-93-3	2-Butanone	6.10	U	6.10	23.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.91	U	0.91	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.70	U	0.70	4.70	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.70	ug/Kg
67-66-3	Chloroform	0.79	U	0.79	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.87	U	0.87	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.85	U	0.85	4.70	ug/Kg
71-43-2	Benzene	0.74	U	0.74	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.74	U	0.74	4.70	ug/Kg
79-01-6	Trichloroethene	0.76	U	0.76	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.85	U	0.85	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.73	U	0.73	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	23.4	ug/Kg
108-88-3	Toluene	0.73	U	0.73	4.70	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.7
Sample Wt/Vol:	6.03 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022878.D	1		06/30/25 14:28	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.61	U	0.61	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.86	U	0.86	4.70	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	23.4	ug/Kg
124-48-1	Dibromochloromethane	0.81	U	0.81	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.82	U	0.82	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.98	U	0.98	4.70	ug/Kg
108-90-7	Chlorobenzene	0.85	U	0.85	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.30	ug/Kg
95-47-6	o-Xylene	0.77	U	0.77	4.70	ug/Kg
100-42-5	Styrene	0.66	U	0.66	4.70	ug/Kg
75-25-2	Bromoform	0.80	U	0.80	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.73	U	0.73	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.2		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	50.2		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.9		17 - 146	116%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	346000	7.707			
540-36-3	1,4-Difluorobenzene	640000	8.616			
3114-55-4	Chlorobenzene-d5	634000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	290000	13.347			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.7
Sample Wt/Vol:	6.03 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022878.D	1		06/30/25 14:28	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
60-29-7	Diethyl Ether	1.80	J		3.45	ug/Kg

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	6.13 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022879.D	1		06/30/25 14:52	VY063025

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	0.88	U	0.88	4.40	ug/Kg
67-64-1	Acetone	4.20	U	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	0.65	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	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	0.72	U	0.72	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	6.13 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022879.D	1		06/30/25 14:52	VY063025

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	49.9		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	50.6		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		17 - 146	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	324000	7.707			
540-36-3	1,4-Difluorobenzene	612000	8.61			
3114-55-4	Chlorobenzene-d5	599000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	250000	13.34			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	6.13 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022879.D	1		06/30/25 14:52	VY063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	5.19 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022861.D	1		06/27/25 14:56	VY062725

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	0.84	U	0.84	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	26.6	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.78	U	0.78	5.30	ug/Kg
79-20-9	Methyl Acetate	1.60	U	1.60	5.30	ug/Kg
75-09-2	Methylene Chloride	3.80	U	3.80	10.6	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.91	U	0.91	5.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.85	U	0.85	5.30	ug/Kg
110-82-7	Cyclohexane	0.84	U	0.84	5.30	ug/Kg
78-93-3	2-Butanone	7.00	U	7.00	26.6	ug/Kg
56-23-5	Carbon Tetrachloride	1.00	U	1.00	5.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.30	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.30	ug/Kg
67-66-3	Chloroform	0.89	U	0.89	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.99	U	0.99	5.30	ug/Kg
108-87-2	Methylcyclohexane	0.97	U	0.97	5.30	ug/Kg
71-43-2	Benzene	0.84	U	0.84	5.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.84	U	0.84	5.30	ug/Kg
79-01-6	Trichloroethene	0.86	U	0.86	5.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.97	U	0.97	5.30	ug/Kg
75-27-4	Bromodichloromethane	0.83	U	0.83	5.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.80	U	3.80	26.6	ug/Kg
108-88-3	Toluene	0.83	U	0.83	5.30	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	5.19 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022861.D	1		06/27/25 14:56	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.69	U	0.69	5.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.66	U	0.66	5.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.98	U	0.98	5.30	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	26.6	ug/Kg
124-48-1	Dibromochloromethane	0.93	U	0.93	5.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.94	U	0.94	5.30	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.30	ug/Kg
108-90-7	Chlorobenzene	0.97	U	0.97	5.30	ug/Kg
100-41-4	Ethyl Benzene	0.71	U	0.71	5.30	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.6	ug/Kg
95-47-6	o-Xylene	0.87	U	0.87	5.30	ug/Kg
100-42-5	Styrene	0.75	U	0.75	5.30	ug/Kg
75-25-2	Bromoform	0.91	U	0.91	5.30	ug/Kg
98-82-8	Isopropylbenzene	0.83	U	0.83	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	1.70	U	1.70	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	2.00	U	2.00	5.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.20	U	3.20	5.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.40	U	3.40	5.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.5		63 - 155	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		70 - 134	99%	SPK: 50
2037-26-5	Toluene-d8	49.6		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		17 - 146	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	337000	7.713			
540-36-3	1,4-Difluorobenzene	630000	8.615			
3114-55-4	Chlorobenzene-d5	584000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	232000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.6
Sample Wt/Vol:	5.19 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022861.D	1		06/27/25 14:56	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.9
Sample Wt/Vol:	6.71 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022862.D	1		06/27/25 15:19	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.94	U	0.94	4.10	ug/Kg
74-87-3	Chloromethane	0.94	U	0.94	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.65	U	0.65	4.10	ug/Kg
74-83-9	Bromomethane	0.89	U	0.89	4.10	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.88	U	0.88	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.83	U	0.83	4.10	ug/Kg
67-64-1	Acetone	3.90	U	3.90	20.7	ug/Kg
75-15-0	Carbon Disulfide	0.88	U	0.88	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.61	U	0.61	4.10	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.10	ug/Kg
75-09-2	Methylene Chloride	2.90	U	2.90	8.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.71	U	0.71	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.66	U	0.66	4.10	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.10	ug/Kg
78-93-3	2-Butanone	5.40	U	5.40	20.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.62	U	0.62	4.10	ug/Kg
74-97-5	Bromochloromethane	0.95	U	0.95	4.10	ug/Kg
67-66-3	Chloroform	0.70	U	0.70	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.77	U	0.77	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.10	ug/Kg
71-43-2	Benzene	0.65	U	0.65	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
79-01-6	Trichloroethene	0.67	U	0.67	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.75	U	0.75	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.65	U	0.65	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	20.7	ug/Kg
108-88-3	Toluene	0.65	U	0.65	4.10	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.9
Sample Wt/Vol:	6.71 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022862.D	1		06/27/25 15:19	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.54	U	0.54	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.51	U	0.51	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.76	U	0.76	4.10	ug/Kg
591-78-6	2-Hexanone	3.10	U	3.10	20.7	ug/Kg
124-48-1	Dibromochloromethane	0.72	U	0.72	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.73	U	0.73	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.87	U	0.87	4.10	ug/Kg
108-90-7	Chlorobenzene	0.75	U	0.75	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.56	U	0.56	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.30	ug/Kg
95-47-6	o-Xylene	0.68	U	0.68	4.10	ug/Kg
100-42-5	Styrene	0.59	U	0.59	4.10	ug/Kg
75-25-2	Bromoform	0.71	U	0.71	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.65	U	0.65	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.50	U	2.50	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	39.1		63 - 155	78%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		70 - 134	94%	SPK: 50
2037-26-5	Toluene-d8	49.1		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		17 - 146	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	349000	7.707			
540-36-3	1,4-Difluorobenzene	633000	8.616			
3114-55-4	Chlorobenzene-d5	541000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	204000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	89.9
Sample Wt/Vol:	6.71 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022862.D	1		06/27/25 15:19	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.6
Sample Wt/Vol:	7.14 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022863.D	1		06/27/25 15:43	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.93	U	0.93	4.10	ug/Kg
74-87-3	Chloromethane	0.93	U	0.93	4.10	ug/Kg
75-01-4	Vinyl Chloride	0.65	U	0.65	4.10	ug/Kg
74-83-9	Bromomethane	0.88	U	0.88	4.10	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	0.99	U	0.99	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	0.82	U	0.82	4.10	ug/Kg
67-64-1	Acetone	3.90	U	3.90	20.5	ug/Kg
75-15-0	Carbon Disulfide	0.87	U	0.87	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.60	U	0.60	4.10	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	4.10	ug/Kg
75-09-2	Methylene Chloride	3.40	J	2.90	8.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.70	U	0.70	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.10	ug/Kg
78-93-3	2-Butanone	5.40	U	5.40	20.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.79	U	0.79	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	4.10	ug/Kg
74-97-5	Bromochloromethane	0.94	U	0.94	4.10	ug/Kg
67-66-3	Chloroform	0.69	U	0.69	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.76	U	0.76	4.10	ug/Kg
108-87-2	Methylcyclohexane	0.74	U	0.74	4.10	ug/Kg
71-43-2	Benzene	0.65	U	0.65	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	0.65	U	0.65	4.10	ug/Kg
79-01-6	Trichloroethene	0.66	U	0.66	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	0.74	U	0.74	4.10	ug/Kg
75-27-4	Bromodichloromethane	0.64	U	0.64	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.90	U	2.90	20.5	ug/Kg
108-88-3	Toluene	0.64	U	0.64	4.10	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.6
Sample Wt/Vol:	7.14 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022863.D	1		06/27/25 15:43	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.53	U	0.53	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.51	U	0.51	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.75	U	0.75	4.10	ug/Kg
591-78-6	2-Hexanone	3.00	U	3.00	20.5	ug/Kg
124-48-1	Dibromochloromethane	0.71	U	0.71	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	0.72	U	0.72	4.10	ug/Kg
127-18-4	Tetrachloroethene	0.86	U	0.86	4.10	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	4.10	ug/Kg
100-41-4	Ethyl Benzene	0.55	U	0.55	4.10	ug/Kg
179601-23-1	m/p-Xylenes	1.00	U	1.00	8.20	ug/Kg
95-47-6	o-Xylene	0.67	U	0.67	4.10	ug/Kg
100-42-5	Styrene	0.58	U	0.58	4.10	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.10	ug/Kg
98-82-8	Isopropylbenzene	0.64	U	0.64	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.99	U	0.99	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.40	U	1.40	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.20	U	1.20	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.40	U	2.40	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.60	U	2.60	4.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.1		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 - 134	100%	SPK: 50
2037-26-5	Toluene-d8	50.4		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.0		17 - 146	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	312000	7.707			
540-36-3	1,4-Difluorobenzene	578000	8.616			
3114-55-4	Chlorobenzene-d5	554000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	240000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.6
Sample Wt/Vol:	7.14 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022863.D	1		06/27/25 15:43	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.2
Sample Wt/Vol:	5.48 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022864.D	1		06/27/25 16:06	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.90	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.90	ug/Kg
75-01-4	Vinyl Chloride	0.78	U	0.78	4.90	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	4.90	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.90	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	4.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.90	ug/Kg
75-35-4	1,1-Dichloroethene	0.99	U	0.99	4.90	ug/Kg
67-64-1	Acetone	4.70	U	4.70	24.7	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.72	U	0.72	4.90	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.90	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	9.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.85	U	0.85	4.90	ug/Kg
75-34-3	1,1-Dichloroethane	0.79	U	0.79	4.90	ug/Kg
110-82-7	Cyclohexane	0.78	U	0.78	4.90	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	24.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.96	U	0.96	4.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.74	U	0.74	4.90	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.90	ug/Kg
67-66-3	Chloroform	0.83	U	0.83	4.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.92	U	0.92	4.90	ug/Kg
108-87-2	Methylcyclohexane	0.90	U	0.90	4.90	ug/Kg
71-43-2	Benzene	0.78	U	0.78	4.90	ug/Kg
107-06-2	1,2-Dichloroethane	0.78	U	0.78	4.90	ug/Kg
79-01-6	Trichloroethene	0.80	U	0.80	4.90	ug/Kg
78-87-5	1,2-Dichloropropane	0.90	U	0.90	4.90	ug/Kg
75-27-4	Bromodichloromethane	0.77	U	0.77	4.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	24.7	ug/Kg
108-88-3	Toluene	0.77	U	0.77	4.90	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.2
Sample Wt/Vol:	5.48 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022864.D	1		06/27/25 16:06	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.64	U	0.64	4.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.61	U	0.61	4.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.91	U	0.91	4.90	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	24.7	ug/Kg
124-48-1	Dibromochloromethane	0.86	U	0.86	4.90	ug/Kg
106-93-4	1,2-Dibromoethane	0.87	U	0.87	4.90	ug/Kg
127-18-4	Tetrachloroethene	1.00	U	1.00	4.90	ug/Kg
108-90-7	Chlorobenzene	0.90	U	0.90	4.90	ug/Kg
100-41-4	Ethyl Benzene	0.66	U	0.66	4.90	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.90	ug/Kg
95-47-6	o-Xylene	0.81	U	0.81	4.90	ug/Kg
100-42-5	Styrene	0.70	U	0.70	4.90	ug/Kg
75-25-2	Bromoform	0.85	U	0.85	4.90	ug/Kg
98-82-8	Isopropylbenzene	0.77	U	0.77	4.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	4.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	4.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	4.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.90	U	2.90	4.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.10	U	3.10	4.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		63 - 155	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.0		74 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.3		17 - 146	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	301000	7.713			
540-36-3	1,4-Difluorobenzene	558000	8.616			
3114-55-4	Chlorobenzene-d5	537000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	231000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.2
Sample Wt/Vol:	5.48 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022864.D	1		06/27/25 16:06	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92
Sample Wt/Vol:	5.75 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022865.D	1		06/27/25 16:30	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.75	U	0.75	4.70	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	4.70	ug/Kg
75-00-3	Chloroethane	1.20	U	1.20	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	1.10	U	1.10	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.95	U	0.95	4.70	ug/Kg
67-64-1	Acetone	4.50	U	4.50	23.6	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.69	U	0.69	4.70	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.70	ug/Kg
75-09-2	Methylene Chloride	3.60	J	3.30	9.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.81	U	0.81	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.76	U	0.76	4.70	ug/Kg
110-82-7	Cyclohexane	0.75	U	0.75	4.70	ug/Kg
78-93-3	2-Butanone	6.20	U	6.20	23.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.92	U	0.92	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.71	U	0.71	4.70	ug/Kg
74-97-5	Bromochloromethane	1.10	U	1.10	4.70	ug/Kg
67-66-3	Chloroform	0.79	U	0.79	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.88	U	0.88	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.86	U	0.86	4.70	ug/Kg
71-43-2	Benzene	0.75	U	0.75	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.75	U	0.75	4.70	ug/Kg
79-01-6	Trichloroethene	0.77	U	0.77	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.86	U	0.86	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.74	U	0.74	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	23.6	ug/Kg
108-88-3	Toluene	0.74	U	0.74	4.70	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92
Sample Wt/Vol:	5.75 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022865.D	1		06/27/25 16:30	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.61	U	0.61	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.59	U	0.59	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.87	U	0.87	4.70	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	23.6	ug/Kg
124-48-1	Dibromochloromethane	0.82	U	0.82	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.83	U	0.83	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.99	U	0.99	4.70	ug/Kg
108-90-7	Chlorobenzene	0.86	U	0.86	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.50	ug/Kg
95-47-6	o-Xylene	0.78	U	0.78	4.70	ug/Kg
100-42-5	Styrene	0.67	U	0.67	4.70	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.74	U	0.74	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.60	U	1.60	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	1.50	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.40	U	1.40	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.80	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.00	U	3.00	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		63 - 155	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.5		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		17 - 146	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	319000	7.707			
540-36-3	1,4-Difluorobenzene	604000	8.615			
3114-55-4	Chlorobenzene-d5	583000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	251000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92
Sample Wt/Vol:	5.75 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:	Prep Date	Date Analyzed	Prep Batch ID
VY022865.D	1		06/27/25 16:30	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

QC SUMMARY

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Surrogate Summary

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits Low	Limits High
Q2436-01	TP-70	1,2-Dichloroethane-d4	50	41.9	84		63	155
		Dibromofluoromethane	50	47.8	96		70	134
		Toluene-d8	50	49.3	99		74	123
		4-Bromofluorobenzene	50	49.6	99		17	146
Q2436-02	TP-69	1,2-Dichloroethane-d4	50	46.8	94		63	155
		Dibromofluoromethane	50	49.9	100		70	134
		Toluene-d8	50	49.5	99		74	123
		4-Bromofluorobenzene	50	54.2	108		17	146
Q2436-03	TP-85	1,2-Dichloroethane-d4	50	45.5	91		63	155
		Dibromofluoromethane	50	49.5	99		70	134
		Toluene-d8	50	49.9	100		74	123
		4-Bromofluorobenzene	50	54.2	108		17	146
Q2436-04	TP-86	1,2-Dichloroethane-d4	50	48.2	96		63	155
		Dibromofluoromethane	50	49.7	99		70	134
		Toluene-d8	50	50.2	100		74	123
		4-Bromofluorobenzene	50	57.9	116		17	146
Q2436-05	TP-84	1,2-Dichloroethane-d4	50	49.9	100		63	155
		Dibromofluoromethane	50	49.9	100		70	134
		Toluene-d8	50	50.6	101		74	123
		4-Bromofluorobenzene	50	54.6	109		17	146
Q2436-06	TP-83	1,2-Dichloroethane-d4	50	46.5	93		63	155
		Dibromofluoromethane	50	49.7	99		70	134
		Toluene-d8	50	49.6	99		74	123
		4-Bromofluorobenzene	50	50.7	101		17	146
Q2436-07	TP-87	1,2-Dichloroethane-d4	50	39.1	78		63	155
		Dibromofluoromethane	50	47.0	94		70	134
		Toluene-d8	50	49.1	98		74	123
		4-Bromofluorobenzene	50	45.2	90		17	146
Q2436-08	TP-100	1,2-Dichloroethane-d4	50	48.1	96		63	155
		Dibromofluoromethane	50	49.9	100		70	134
		Toluene-d8	50	50.4	101		74	123
		4-Bromofluorobenzene	50	55.0	110		17	146
Q2436-09	TP-99	1,2-Dichloroethane-d4	50	50.2	100		63	155
		Dibromofluoromethane	50	50.7	101		70	134
		Toluene-d8	50	50.0	100		74	123
		4-Bromofluorobenzene	50	54.3	109		17	146
Q2436-10	TP-82	1,2-Dichloroethane-d4	50	49.0	98		63	155
		Dibromofluoromethane	50	50.5	101		70	134
		Toluene-d8	50	50.5	101		74	123
		4-Bromofluorobenzene	50	54.6	109		17	146
VY0627SBL01	VY0627SBL01	1,2-Dichloroethane-d4	50	44.5	89		63	155
		Dibromofluoromethane	50	49.1	98		70	134
		Toluene-d8	50	49.3	99		74	123
		4-Bromofluorobenzene	50	51.2	102		17	146
VY0627SBS01	VY0627SBS01	1,2-Dichloroethane-d4	50	48.5	97		63	155
		Dibromofluoromethane	50	50.3	101		70	134
		Toluene-d8	50	50.4	101		74	123
		4-Bromofluorobenzene	50	48.4	97		17	146
VY0627SBSD01	VY0627SBSD01	1,2-Dichloroethane-d4	50	51.8	104		63	155
		Dibromofluoromethane	50	51.6	103		70	134

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Surrogate Summary

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits Low	Limits High
VY0627SBSD01	VY0627SBSD01	Toluene-d8	50	51.0	102		74	123
		4-Bromofluorobenzene	50	49.2	98		17	146
VY0630SBL01	VY0630SBL01	1,2-Dichloroethane-d4	50	44.2	88		63	155
		Dibromofluoromethane	50	50.1	100		70	134
		Toluene-d8	50	49.3	99		74	123
		4-Bromofluorobenzene	50	54.2	108		17	146
VY0630SBS01	VY0630SBS01	1,2-Dichloroethane-d4	50	46.6	93		63	155
		Dibromofluoromethane	50	48.0	96		70	134
		Toluene-d8	50	48.5	97		74	123
		4-Bromofluorobenzene	50	47.0	94		17	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022854.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0627SBS01	Dichlorodifluoromethane	20	20.3	ug/Kg	102			64	136	
	Chloromethane	20	21.4	ug/Kg	107			52	151	
	Vinyl chloride	20	19.1	ug/Kg	96			56	148	
	Bromomethane	20	22.9	ug/Kg	115			58	141	
	Chloroethane	20	19.8	ug/Kg	99			69	130	
	Trichlorofluoromethane	20	18.5	ug/Kg	93			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.6	ug/Kg	103			81	123	
	1,1-Dichloroethene	20	20.2	ug/Kg	101			79	121	
	Acetone	100	120	ug/Kg	120			40	171	
	Carbon disulfide	20	19.9	ug/Kg	100			59	130	
	Methyl tert-butyl Ether	20	19.0	ug/Kg	95			77	129	
	Methyl Acetate	20	15.2	ug/Kg	76			69	149	
	Methylene Chloride	20	23.3	ug/Kg	117			72	131	
	trans-1,2-Dichloroethene	20	19.9	ug/Kg	100			80	123	
	1,1-Dichloroethane	20	20.1	ug/Kg	101			82	123	
	Cyclohexane	20	20.1	ug/Kg	101			76	122	
	2-Butanone	100	94.9	ug/Kg	95			69	131	
	Carbon Tetrachloride	20	19.7	ug/Kg	99			76	129	
	cis-1,2-Dichloroethene	20	19.8	ug/Kg	99			82	123	
	Bromochloromethane	20	19.8	ug/Kg	99			80	127	
	Chloroform	20	19.9	ug/Kg	100			82	125	
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101			80	126	
	Methylcyclohexane	20	20.1	ug/Kg	101			77	123	
	Benzene	20	19.9	ug/Kg	100			84	121	
	1,2-Dichloroethane	20	19.0	ug/Kg	95			81	126	
	Trichloroethene	20	19.9	ug/Kg	100			83	122	
	1,2-Dichloropropane	20	19.7	ug/Kg	99			83	122	
	Bromodichloromethane	20	19.2	ug/Kg	96			82	123	
	4-Methyl-2-Pentanone	100	85.5	ug/Kg	86			70	135	
	Toluene	20	19.7	ug/Kg	99			83	122	
	t-1,3-Dichloropropene	20	18.6	ug/Kg	93			78	124	
	cis-1,3-Dichloropropene	20	19.9	ug/Kg	100			81	122	
	1,1,2-Trichloroethane	20	18.7	ug/Kg	94			82	125	
	2-Hexanone	100	89.6	ug/Kg	90			66	138	
	Dibromochloromethane	20	18.6	ug/Kg	93			79	125	
	1,2-Dibromoethane	20	18.4	ug/Kg	92			80	125	
	Tetrachloroethene	20	20.1	ug/Kg	101			83	125	
	Chlorobenzene	20	20.1	ug/Kg	101			84	122	
	Ethyl Benzene	20	20.5	ug/Kg	103			82	124	
	m/p-Xylenes	40	40.3	ug/Kg	101			83	124	
	o-Xylene	20	20.0	ug/Kg	100			83	123	
	Styrene	20	19.4	ug/Kg	97			82	124	
	Bromoform	20	17.8	ug/Kg	89			75	127	
	Isopropylbenzene	20	21.3	ug/Kg	106			82	124	
	1,1,2,2-Tetrachloroethane	20	19.1	ug/Kg	96			77	127	
	1,3-Dichlorobenzene	20	20.1	ug/Kg	101			83	122	
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	20	19.5	ug/Kg	98			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022854.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0627SBS01	1,2-Dibromo-3-Chloropropane	20	17.5	ug/Kg	88			66	134	
	1,2,4-Trichlorobenzene	20	18.7	ug/Kg	94			78	127	
	1,2,3-Trichlorobenzene	20	18.3	ug/Kg	92			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022855.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0627SBSD01	Dichlorodifluoromethane	20	20.9	ug/Kg	104	2		64	136	20
	Chloromethane	20	22.0	ug/Kg	110	3		52	151	20
	Vinyl chloride	20	19.1	ug/Kg	96	0		56	148	20
	Bromomethane	20	22.7	ug/Kg	114	1		58	141	20
	Chloroethane	20	18.7	ug/Kg	94	5		69	130	20
	Trichlorofluoromethane	20	17.9	ug/Kg	90	3		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102	1		81	123	20
	1,1-Dichloroethene	20	21.5	ug/Kg	108	7		79	121	20
	Acetone	100	120	ug/Kg	120	0		40	171	20
	Carbon disulfide	20	20.9	ug/Kg	104	4		59	130	20
	Methyl tert-butyl Ether	20	21.5	ug/Kg	108	13		77	129	20
	Methyl Acetate	20	17.8	ug/Kg	89	16		69	149	20
	Methylene Chloride	20	24.9	ug/Kg	125	7		72	131	20
	trans-1,2-Dichloroethene	20	21.6	ug/Kg	108	8		80	123	20
	1,1-Dichloroethane	20	22.1	ug/Kg	111	9		82	123	20
	Cyclohexane	20	20.4	ug/Kg	102	1		76	122	20
	2-Butanone	100	110	ug/Kg	110	15		69	131	20
	Carbon Tetrachloride	20	19.8	ug/Kg	99	0		76	129	20
	cis-1,2-Dichloroethene	20	21.7	ug/Kg	109	10		82	123	20
	Bromochloromethane	20	21.0	ug/Kg	105	6		80	127	20
	Chloroform	20	21.5	ug/Kg	108	8		82	125	20
	1,1,1-Trichloroethane	20	21.1	ug/Kg	106	5		80	126	20
	Methylcyclohexane	20	19.7	ug/Kg	99	2		77	123	20
	Benzene	20	20.8	ug/Kg	104	4		84	121	20
	1,2-Dichloroethane	20	20.9	ug/Kg	104	9		81	126	20
	Trichloroethene	20	20.4	ug/Kg	102	2		83	122	20
	1,2-Dichloropropane	20	21.1	ug/Kg	106	7		83	122	20
	Bromodichloromethane	20	20.8	ug/Kg	104	8		82	123	20
	4-Methyl-2-Pentanone	100	94.0	ug/Kg	94	9		70	135	20
	Toluene	20	20.5	ug/Kg	103	4		83	122	20
	t-1,3-Dichloropropene	20	20.4	ug/Kg	102	9		78	124	20
	cis-1,3-Dichloropropene	20	21.1	ug/Kg	106	6		81	122	20
	1,1,2-Trichloroethane	20	20.3	ug/Kg	102	8		82	125	20
	2-Hexanone	100	95.1	ug/Kg	95	5		66	138	20
	Dibromochloromethane	20	20.1	ug/Kg	101	8		79	125	20
	1,2-Dibromoethane	20	20.0	ug/Kg	100	8		80	125	20
	Tetrachloroethene	20	20.5	ug/Kg	103	2		83	125	20
	Chlorobenzene	20	21.0	ug/Kg	105	4		84	122	20
	Ethyl Benzene	20	20.9	ug/Kg	104	1		82	124	20
	m/p-Xylenes	40	40.8	ug/Kg	102	1		83	124	20
	o-Xylene	20	20.7	ug/Kg	104	4		83	123	20
	Styrene	20	20.3	ug/Kg	102	5		82	124	20
	Bromoform	20	19.0	ug/Kg	95	7		75	127	20
	Isopropylbenzene	20	21.6	ug/Kg	108	2		82	124	20
	1,1,2,2-Tetrachloroethane	20	20.0	ug/Kg	100	4		77	127	20
	1,3-Dichlorobenzene	20	21.0	ug/Kg	105	4		83	122	20
	1,4-Dichlorobenzene	20	21.2	ug/Kg	106	6		84	121	20
	1,2-Dichlorobenzene	20	20.4	ug/Kg	102	4		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022855.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0627SBSD01	1,2-Dibromo-3-Chloropropane	20	18.7	ug/Kg	94	7		66	134	20
	1,2,4-Trichlorobenzene	20	20.0	ug/Kg	100	6		78	127	20
	1,2,3-Trichlorobenzene	20	19.4	ug/Kg	97	5		70	137	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022874.D

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

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8260D **Datafile :** VY022874.D

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

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0627SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: VY022853.D Lab Sample ID: VY0627SBL01

Date Analyzed: 06/27/2025 Time Analyzed: 11:32

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

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0627SBS01	VY0627SBS01	VY022854.D	06/27/2025
VY0627SBSD01	VY0627SBSD01	VY022855.D	06/27/2025
TP-70	Q2436-01	VY022856.D	06/27/2025
TP-69	Q2436-02	VY022857.D	06/27/2025
TP-83	Q2436-06	VY022861.D	06/27/2025
TP-87	Q2436-07	VY022862.D	06/27/2025
TP-100	Q2436-08	VY022863.D	06/27/2025
TP-99	Q2436-09	VY022864.D	06/27/2025
TP-82	Q2436-10	VY022865.D	06/27/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0630SBL01

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

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

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

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

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0630SBS01	VY0630SBS01	VY022874.D	06/30/2025
TP-85	Q2436-03	VY022877.D	06/30/2025
TP-86	Q2436-04	VY022878.D	06/30/2025
TP-84	Q2436-05	VY022879.D	06/30/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

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

Instrument ID: MSVOA_Y BFB Injection Time: 10:17

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

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

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY022776.D	06/23/2025	13:38
VSTDICC010	VSTDICC010	VY022777.D	06/23/2025	14:00
VSTDICC020	VSTDICC020	VY022778.D	06/23/2025	14:23
VSTDICCC050	VSTDICCC050	VY022779.D	06/23/2025	14:46
VSTDICC100	VSTDICC100	VY022780.D	06/23/2025	15:08
VSTDICC150	VSTDICC150	VY022781.D	06/23/2025	15:31

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: VY022851.D BFB Injection Date: 06/27/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:31

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	80.5
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	77.3 (96) 1
177	5.0 - 9.0% of mass 176	5.1 (6.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022852.D	06/27/2025	11:00
VY0627SBL01	VY0627SBL01	VY022853.D	06/27/2025	11:32
VY0627SBS01	VY0627SBS01	VY022854.D	06/27/2025	12:00
VY0627SBSD01	VY0627SBSD01	VY022855.D	06/27/2025	12:22
TP-70	Q2436-01	VY022856.D	06/27/2025	12:59
TP-69	Q2436-02	VY022857.D	06/27/2025	13:22
TP-83	Q2436-06	VY022861.D	06/27/2025	14:56
TP-87	Q2436-07	VY022862.D	06/27/2025	15:19
TP-100	Q2436-08	VY022863.D	06/27/2025	15:43
TP-99	Q2436-09	VY022864.D	06/27/2025	16:06
TP-82	Q2436-10	VY022865.D	06/27/2025	16:30

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

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

Instrument ID: MSVOA_Y BFB Injection Time: 08:42

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1) 1
174	50.0 - 100.0% of mass 95	84.6
175	5.0 - 9.0% of mass 174	6.3 (7.4) 1
176	95.0 - 101.0% of mass 174	80.8 (95.5) 1
177	5.0 - 9.0% of mass 176	5.3 (6.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022872.D	06/30/2025	11:03
VY0630SBL01	VY0630SBL01	VY022873.D	06/30/2025	11:39
VY0630SBS01	VY0630SBS01	VY022874.D	06/30/2025	12:09
TP-85	Q2436-03	VY022877.D	06/30/2025	13:32
TP-86	Q2436-04	VY022878.D	06/30/2025	14:28
TP-84	Q2436-05	VY022879.D	06/30/2025	14:52

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: VY022852.D Date Analyzed: 06/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 11:00

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	460120	7.71	754723	8.62	647658	11.42
UPPER LIMIT	920240	8.213	1509450	9.122	1295320	11.92
LOWER LIMIT	230060	7.213	377362	8.122	323829	10.92
EPA SAMPLE NO.						
TP-70	370411	7.71	661194	8.62	597332	11.42
TP-69	340803	7.71	625770	8.62	598373	11.42
TP-83	337210	7.71	630445	8.62	584339	11.41
TP-87	348864	7.71	632840	8.62	540565	11.41
TP-100	312427	7.71	578070	8.62	554007	11.41
TP-99	301121	7.71	558142	8.62	536522	11.41
TP-82	318610	7.71	604014	8.62	582898	11.41
VY0627SBL01	358693	7.71	655911	8.62	603519	11.42
VY0627SBS01	438526	7.71	740220	8.62	622783	11.42
VY0627SBSD01	392671	7.71	686703	8.62	587941	11.42

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: VY022852.D Date Analyzed: 06/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 11:00

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

	IS4 AREA #	RT #				
12 HOUR STD	319930	13.347				
UPPER LIMIT	639860	13.847				
LOWER LIMIT	159965	12.847				
EPA SAMPLE NO.						
TP-70	238564	13.35				
TP-69	255220	13.35				
TP-83	232255	13.35				
TP-87	204342	13.35				
TP-100	240211	13.35				
TP-99	230605	13.35				
TP-82	250591	13.35				
VY0627SBL01	250491	13.35				
VY0627SBS01	290353	13.35				
VY0627SBSD01	274040	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

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

Instrument ID: MSVOA_Y Time Analyzed: 11:03

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	450935	7.71	753538	8.62	651538	11.41
UPPER LIMIT	901870	8.207	1507080	9.115	1303080	11.914
LOWER LIMIT	225468	7.207	376769	8.115	325769	10.914
EPA SAMPLE NO.						
TP-85	372972	7.71	690751	8.61	657778	11.41
TP-86	346216	7.71	639767	8.62	633746	11.41
TP-84	323652	7.71	612070	8.61	599073	11.41
VY0630SBL01	371114	7.71	672085	8.62	635637	11.41
VY0630SBS01	473861	7.71	796065	8.62	673720	11.41

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

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

Instrument ID: MSVOA_Y Time Analyzed: 11:03

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

	IS4 AREA #	RT #				
12 HOUR STD	313014	13.346				
UPPER LIMIT	626028	13.846				
LOWER LIMIT	156507	12.846				
EPA SAMPLE NO.						
TP-85	284435	13.34				
TP-86	290240	13.35				
TP-84	250413	13.34				
VY0630SBL01	274914	13.35				
VY0630SBS01	318118	13.34				

IS4 = 1,4-Dichlorobenzene-d4

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

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

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBL01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022853.D	1		06/27/25 11:32	VY062725

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBL01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022853.D	1		06/27/25 11:32	VY062725

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	44.5		63 - 155	89%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	49.3		74 - 123	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		17 - 146	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	359000	7.713			
540-36-3	1,4-Difluorobenzene	656000	8.622			
3114-55-4	Chlorobenzene-d5	604000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	250000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBL01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022853.D	1		06/27/25 11:32	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBL01	SDG No.:	Q2436
Lab Sample ID:	VY0630SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBL01	SDG No.:	Q2436
Lab Sample ID:	VY0630SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBL01	SDG No.:	Q2436
Lab Sample ID:	VY0630SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBS01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022854.D	1		06/27/25 12:00	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.3		1.10	5.00	ug/Kg
74-87-3	Chloromethane	21.4		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	22.9		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.8		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.5		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.6		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		1.00	5.00	ug/Kg
67-64-1	Acetone	120		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.9		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.0		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	15.2		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	23.3		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.9		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.1		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.1		0.79	5.00	ug/Kg
78-93-3	2-Butanone	94.9		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	19.8		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.8		1.20	5.00	ug/Kg
67-66-3	Chloroform	19.9		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.1		0.91	5.00	ug/Kg
71-43-2	Benzene	19.9		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.0		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	19.9		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.2		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	85.5		3.60	25.0	ug/Kg
108-88-3	Toluene	19.7		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBS01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022854.D	1		06/27/25 12:00	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.9		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	18.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	89.6		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	18.6		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.4		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.1		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.5		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.3		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.0		0.82	5.00	ug/Kg
100-42-5	Styrene	19.4		0.71	5.00	ug/Kg
75-25-2	Bromoform	17.8		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.3		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.1		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.1		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.0		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.5		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.5		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.3		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		74 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		17 - 146	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	439000	7.713			
540-36-3	1,4-Difluorobenzene	740000	8.616			
3114-55-4	Chlorobenzene-d5	623000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	290000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBS01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022854.D	1		06/27/25 12:00	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBS01	SDG No.:	Q2436
Lab Sample ID:	VY0630SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBS01	SDG No.:	Q2436
Lab Sample ID:	VY0630SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0630SBS01	SDG No.:	Q2436
Lab Sample ID:	VY0630SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBSD01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBSD01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022855.D	1		06/27/25 12:22	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	20.9		1.10	5.00	ug/Kg
74-87-3	Chloromethane	22.0		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.1		0.79	5.00	ug/Kg
74-83-9	Bromomethane	22.7		1.10	5.00	ug/Kg
75-00-3	Chloroethane	18.7		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	17.9		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.5		1.00	5.00	ug/Kg
67-64-1	Acetone	120		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.9		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.5		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	17.8		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	24.9		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.1		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	20.4		0.79	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.7		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	21.0		1.20	5.00	ug/Kg
67-66-3	Chloroform	21.5		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.7		0.91	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.9		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	20.8		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	94.0		3.60	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	5.00	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBSD01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBSD01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022855.D	1		06/27/25 12:22	VY062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.1		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.3		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	95.1		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	21.0		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.9		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.8		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.7		0.82	5.00	ug/Kg
100-42-5	Styrene	20.3		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.0		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.6		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.0		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.0		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.2		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.4		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.0		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.4		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		63 - 155	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		70 - 134	103%	SPK: 50
2037-26-5	Toluene-d8	51.0		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		17 - 146	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	393000	7.713			
540-36-3	1,4-Difluorobenzene	687000	8.616			
3114-55-4	Chlorobenzene-d5	588000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	274000	13.346			

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VY0627SBSD01	SDG No.:	Q2436
Lab Sample ID:	VY0627SBSD01	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:	Prep Date	Date Analyzed	Prep Batch ID
VY022855.D	1		06/27/25 12:22	VY062725

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

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

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

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

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

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

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

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

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

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

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

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

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

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

Alliance TECHNICAL GROUP
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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

Instrument ID: MSVOA_Y Calibration Date/Time: 06/27/2025 11:00

Lab File ID: VY022852.D Init. Calib. Date(s): 06/23/2025 06/23/2025

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.428	0.428		0	20
Chloromethane	0.816	0.857	0.1	5.03	20
Vinyl Chloride	1.020	0.985		-3.43	20
Bromomethane	0.802	0.846		5.49	20
Chloroethane	0.686	0.683		-0.44	20
Trichlorofluoromethane	1.129	1.067		-5.49	20
1,1,2-Trichlorotrifluoroethane	0.516	0.539		4.46	20
1,1-Dichloroethene	0.506	0.535		5.73	20
Acetone	0.105	0.121		15.24	20
Carbon Disulfide	1.635	1.684		3	20
Methyl tert-butyl Ether	1.378	1.416		2.76	20
Methyl Acetate	0.349	0.300		-14.04	20
Methylene Chloride	0.666	0.659		-1.05	20
trans-1,2-Dichloroethene	0.578	0.608		5.19	20
1,1-Dichloroethane	1.044	1.117	0.1	6.99	20
Cyclohexane	0.959	0.990		3.23	20
2-Butanone	0.154	0.156		1.3	20
Carbon Tetrachloride	0.486	0.532		9.47	20
cis-1,2-Dichloroethene	0.672	0.707		5.21	20
Bromochloromethane	0.439	0.420		-4.33	20
Chloroform	1.076	1.114		3.63	20
1,1,1-Trichloroethane	0.929	0.989		6.46	20
Methylcyclohexane	0.596	0.671		12.58	20
Benzene	1.417	1.538		8.54	20
1,2-Dichloroethane	0.388	0.407		4.9	20
Trichloroethene	0.356	0.381		7.02	20
1,2-Dichloropropane	0.332	0.355		6.93	20
Bromodichloromethane	0.485	0.520		7.22	20
4-Methyl-2-Pentanone	0.210	0.212		0.95	20
Toluene	0.894	0.991		10.85	20
t-1,3-Dichloropropene	0.437	0.473		8.24	20
cis-1,3-Dichloropropene	0.506	0.555		9.68	20
1,1,2-Trichloroethane	0.244	0.251		2.87	20
2-Hexanone	0.143	0.151		5.59	20
Dibromochloromethane	0.315	0.331		5.08	20
1,2-Dibromoethane	0.228	0.233		2.19	20
Tetrachloroethene	0.472	0.495		4.87	20
Chlorobenzene	1.099	1.211	0.3	10.19	20

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

Instrument ID: MSVOA_Y Calibration Date/Time: 06/27/2025 11:00

Lab File ID: VY022852.D Init. Calib. Date(s): 06/23/2025 06/23/2025

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.214		14.72	20
m/p-Xylenes	0.746	0.854		14.48	20
o-Xylene	0.703	0.804		14.37	20
Styrene	1.178	1.339		13.67	20
Bromoform	0.207	0.211	0.1	1.93	20
Isopropylbenzene	3.698	4.232		14.44	20
1,1,2,2-Tetrachloroethane	0.596	0.622	0.3	4.36	20
1,3-Dichlorobenzene	1.683	1.862		10.64	20
1,4-Dichlorobenzene	1.672	1.820		8.85	20
1,2-Dichlorobenzene	1.483	1.590		7.22	20
1,2-Dibromo-3-Chloropropane	0.101	0.099		-1.98	20
1,2,4-Trichlorobenzene	0.838	0.867		3.46	20
1,2,3-Trichlorobenzene	0.724	0.718		-0.83	20
1,2-Dichloroethane-d4	0.558	0.538		-3.58	20
Dibromofluoromethane	0.304	0.307		0.99	20
Toluene-d8	1.207	1.256		4.06	20
4-Bromofluorobenzene	0.388	0.399		2.84	20

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

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

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

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

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

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

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

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

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

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

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

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.930	2.279		18.08	20
m/p-Xylenes	0.746	0.876		17.43	20
o-Xylene	0.703	0.826		17.5	20
Styrene	1.178	1.368		16.13	20
Bromoform	0.207	0.217	0.1	4.83	20
Isopropylbenzene	3.698	4.437		19.98	20
1,1,2,2-Tetrachloroethane	0.596	0.623	0.3	4.53	20
1,3-Dichlorobenzene	1.683	1.949		15.81	20
1,4-Dichlorobenzene	1.672	1.902		13.76	20
1,2-Dichlorobenzene	1.483	1.663		12.14	20
1,2-Dibromo-3-Chloropropane	0.101	0.098		-2.97	20
1,2,4-Trichlorobenzene	0.838	0.907		8.23	20
1,2,3-Trichlorobenzene	0.724	0.733		1.24	20
1,2-Dichloroethane-d4	0.558	0.541		-3.05	20
Dibromofluoromethane	0.304	0.310		1.97	20
Toluene-d8	1.207	1.238		2.57	20
4-Bromofluorobenzene	0.388	0.386		-0.51	20

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

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LAB CHRONICLE

OrderID:	Q2436	**OrderDate:**	6/26/2025 3:41:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2436-01	**TP-70**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-02	**TP-69**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-03	**TP-85**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-04	**TP-86**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-05	**TP-84**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-06	**TP-83**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	

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LAB CHRONICLE

			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-07	**TP-87**	**SOIL**			**06/26/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-08	**TP-100**	**SOIL**			**06/26/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-09	**TP-99**	**SOIL**			**06/26/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-10	**TP-82**	**SOIL**			**06/26/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	07/01/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	82.1 Decanted:
Sample Wt/Vol:	4.7 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031949.D	1	06/27/25 12:20	FB062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	U	11.0	58.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	14.2		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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	82 Decanted:
Sample Wt/Vol:	4.03 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031961.D	1	06/27/25 18:25	FB062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	12.0	U	12.0	68.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.7		50 - 150	78%	SPK: 20

Comments:

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LOD = Limit of Detection
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M = MS/MSD acceptance criteria did not meet requirements

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	85.1 Decanted:
Sample Wt/Vol:	4.32 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031951.D	1	06/27/25 13:14	FB062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	U	11.0	61.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.7		50 - 150	78%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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M = MS/MSD acceptance criteria did not meet requirements

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	88.7 Decanted:
Sample Wt/Vol:	4.08 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031971.D	50	06/30/25 12:59	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	589	J	571	3110	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	24.7		50 - 150	123%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	92.3 Decanted:
Sample Wt/Vol:	4.18 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031953.D	1	06/27/25 14:09	FB062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	U	11.0	58.0	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.6 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031956.D	1	06/27/25 16:06	FB062725

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	14.0		50 - 150	70%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	89.9 Decanted:
Sample Wt/Vol:	5.2 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031969.D	1	06/30/25 12:04	FB063025

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	14.8		50 - 150	74%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	85.6 Decanted:
Sample Wt/Vol:	6 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031958.D	1	06/27/25 17:01	FB062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	44.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.1		50 - 150	76%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	92.2 Decanted:
Sample Wt/Vol:	4.5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031959.D	1	06/27/25 17:29	FB062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	J	10.0	54.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.7		50 - 150	78%	SPK: 20

Comments:

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	92 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031970.D	1	06/30/25 12:31	FB063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	49.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.1		50 - 150	85%	SPK: 20

Comments:

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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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

QC SUMMARY

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SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: CDM Smith

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

EPA SAMPLE NO.	S1 AAA-TFT	S2	S3	S4	TOT OUT
VBF0627S1	76				0
BSF0627S1	84				0
TP-70	71				0
TP-85	78				0
TP-84	68				0
TP-83	70				0
TP-100	76				0
TP-99	78				0
TP-69	78				0
BSF0627S3	88				0
VBF0630S1	80				0
VBF0630S2	85				0
BSF0630S1	86				0
TP-87	74				0
TP-82	85				0
TP-86	123				0

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

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

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

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q2436 **SAS No :** Q2436 **SDG No:** Q2436

Matrix Spike - EPA Sample No : BSF0627S1 **Datafile:** FB031948.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	154	86	50-150

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

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q2436 **SAS No :** Q2436 **SDG No:** Q2436

Matrix Spike - EPA Sample No : BSF0627S3 **Datafile:** FB031962.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	156	87	50-150

LCS/LCSD % Recovery RPD : 1.3

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

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q2436 **SAS No :** Q2436 **SDG No:** Q2436

Matrix Spike - EPA Sample No : BSF0630S1 **Datafile:** FB031967.D

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

Alliance TECHNICAL GROUP
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METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBF0627S1

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: FB031946.D Lab Sample ID: VBF0627S1

Date Analyzed: 06/27/25 Time Analyzed: 10:24

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:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0627S1	BSF0627S1	FB031948.D	06/27/25
TP-70	Q2436-01	FB031949.D	06/27/25
TP-85	Q2436-03	FB031951.D	06/27/25
TP-84	Q2436-05	FB031953.D	06/27/25
TP-83	Q2436-06	FB031956.D	06/27/25
TP-100	Q2436-08	FB031958.D	06/27/25
TP-99	Q2436-09	FB031959.D	06/27/25
TP-69	Q2436-02	FB031961.D	06/27/25
BSF0627S3	BSF0627S3	FB031962.D	06/27/25

COMMENTS:

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Fax : 908 789 8922

METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF0630S1

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

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

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

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

Instrument ID: FB

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0630S1	BSF0630S1	FB031967.D	06/30/25
TP-87	Q2436-07	FB031969.D	06/30/25
TP-82	Q2436-10	FB031970.D	06/30/25

COMMENTS:

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METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF0630S2

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: FB031966.D Lab Sample ID: VBF0630S2

Date Analyzed: 06/30/25 Time Analyzed: 10:40

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

Instrument ID: FB

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TP-86	Q2436-04	FB031971.D	06/30/25

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0627S1	SDG No.:	Q2436
Lab Sample ID:	VBF0627S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031946.D	1	06/27/25 10:24	FB062725

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	15.2		50 - 150	76%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0630S1	SDG No.:	Q2436
Lab Sample ID:	VBF0630S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.0		50 - 150	80%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0630S2	SDG No.:	Q2436
Lab Sample ID:	VBF0630S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031966.D	50	06/30/25 10:40	FB063025

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	17.1		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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0627S1	SDG No.:	Q2436
Lab Sample ID:	BSF0627S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031948.D	1	06/27/25 11:19	FB062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	154		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.8		50 - 150	84%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0630S1	SDG No.:	Q2436
Lab Sample ID:	BSF0630S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

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

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

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0627S3	SDG No.:	Q2436
Lab Sample ID:	BSF0627S3	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100 Decanted:
Sample Wt/Vol:	5 Units: g	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031962.D	1	06/27/25 18:53	FB062725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	156		8.00	45.0	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

CALIBRATION SUMMARY

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GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

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

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

DataFile: FB031945.D Analyst Name: YP/AJ Analyst Date: 06-27-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4972296	27624	29754	7.159

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

DataFile: FB031955.D Analyst Name: YP/AJ Analyst Date: 06-27-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4580542	25447	29754	14.475

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

DataFile: FB031963.D Analyst Name: YP/AJ Analyst Date: 06-27-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4575171	25418	29754	14.573

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

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

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

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GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

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

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

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2436

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**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	27 Jun 2025 9:38	FB031945.D	8.792	
VBF0627S1	VBF0627S1	27 Jun 2025 10:24	FB031946.D	8.795	
BSF0627S1	BSF0627S1	27 Jun 2025 11:19	FB031948.D	8.795	
TP-70	Q2436-01	27 Jun 2025 12:20	FB031949.D	8.795	
TP-85	Q2436-03	27 Jun 2025 13:14	FB031951.D	8.796	
TP-84	Q2436-05	27 Jun 2025 14:09	FB031953.D	8.796	
20 PPB GRO STD	20 PPB GRO STD	27 Jun 2025 15:21	FB031955.D	8.796	
TP-83	Q2436-06	27 Jun 2025 16:06	FB031956.D	8.796	
TP-100	Q2436-08	27 Jun 2025 17:01	FB031958.D	8.794	
TP-99	Q2436-09	27 Jun 2025 17:29	FB031959.D	8.796	
TP-69	Q2436-02	27 Jun 2025 18:25	FB031961.D	8.796	
BSF0627S3	BSF0627S3	27 Jun 2025 18:53	FB031962.D	8.796	
20 PPB GRO STD	20 PPB GRO STD	27 Jun 2025 19:20	FB031963.D	8.796	
20 PPB GRO STD	20 PPB GRO STD	30 Jun 2025 9:27	FB031964.D	8.789	
VBF0630S1	VBF0630S1	30 Jun 2025 10:12	FB031965.D	8.796	
VBF0630S2	VBF0630S2	30 Jun 2025 10:40	FB031966.D	8.798	
BSF0630S1	BSF0630S1	30 Jun 2025 11:08	FB031967.D	8.798	
TP-87	Q2436-07	30 Jun 2025 12:04	FB031969.D	8.800	
TP-82	Q2436-10	30 Jun 2025 12:31	FB031970.D	8.800	
TP-86	Q2436-04	30 Jun 2025 12:59	FB031971.D	8.978	
20 PPB GRO STD	20 PPB GRO STD	30 Jun 2025 13:54	FB031973.D	8.802	

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

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

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LAB CHRONICLE

OrderID:	Q2436	**OrderDate:**	6/26/2025 3:41:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2436-01	**TP-70**	**SOIL**			**06/25/25**			**06/26/25**
			SVOC-TCL BNA -20	8270E		06/27/25	06/30/25	
Q2436-02	**TP-69**	**SOIL**			**06/25/25**			**06/26/25**
			SVOC-TCL BNA -20	8270E		06/27/25	06/30/25	
Q2436-03	**TP-85**	**SOIL**			**06/25/25**			**06/26/25**
			SVOC-TCL BNA -20	8270E		06/27/25	07/01/25	
Q2436-04	**TP-86**	**SOIL**			**06/25/25**			**06/26/25**
			SVOC-TCL BNA -20	8270E		06/27/25	06/30/25	
Q2436-05	**TP-84**	**SOIL**			**06/25/25**			**06/26/25**
			SVOC-TCL BNA -20	8270E		06/27/25	06/30/25	
Q2436-06	**TP-83**	**SOIL**			**06/25/25**			**06/26/25**
			SVOC-TCL BNA -20	8270E		06/27/25	06/30/25	
Q2436-07	**TP-87**	**SOIL**			**06/26/25**			**06/26/25**
			SVOC-TCL BNA -20	8270E		06/27/25	06/30/25	
Q2436-08	**TP-100**	**SOIL**			**06/26/25**			**06/26/25**
			SVOC-TCL BNA -20	8270E		06/27/25	06/30/25	
Q2436-09	**TP-99**	**SOIL**			**06/26/25**			**06/26/25**
			SVOC-TCL BNA -20	8270E		06/27/25	06/30/25	
Q2436-10	**TP-82**	**SOIL**			**06/26/25**			**06/26/25**
			SVOC-TCL BNA -20	8270E		06/27/25	06/30/25	

Alliance TECHNICAL GROUP
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Hit Summary Sheet
SW-846

SDG No.: Q2436

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : TP-70									
Q2436-01	TP-70	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	190.000	AB	0	0	ug/Kg
Q2436-01	TP-70	SOIL	Benzophenone	*	130.000	J	0	0	ug/Kg
			Total Tics :		**320.00**				
			Total Concentration:		**320.00**				
Client ID : TP-69									
Q2436-02	TP-69	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2436-02	TP-69	SOIL	Benzophenone	*	110.000	J	0	0	ug/Kg
Q2436-02	TP-69	SOIL	n-Tetracosanol-1	*	120.000	J	0	0	ug/Kg
Q2436-02	TP-69	SOIL	Triphenylphosphine oxide	*	110.000	J	0	0	ug/Kg
			Total Tics :		**550.00**				
			Total Concentration:		**550.00**				
Client ID : TP-85									
Q2436-03	TP-85	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	310.000	AB	0	0	ug/Kg
Q2436-03	TP-85	SOIL	Benzophenone	*	130.000	J	0	0	ug/Kg
Q2436-03	TP-85	SOIL	n-Hexadecanoic acid	*	89.600	J	0	0	ug/Kg
Q2436-03	TP-85	SOIL	Tricosyl trifluoroacetate	*	150.000	J	0	0	ug/Kg
Q2436-03	TP-85	SOIL	Triphenylphosphine oxide	*	140.000	J	0	0	ug/Kg
			Total Tics :		**819.60**				
			Total Concentration:		**819.60**				
Client ID : TP-86									
Q2436-04	TP-86	SOIL	1-Decanol, 2-octyl-	*	86.200	J	0	0	ug/Kg
Q2436-04	TP-86	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	220.000	AB	0	0	ug/Kg
Q2436-04	TP-86	SOIL	Benzophenone	*	120.000	J	0	0	ug/Kg
Q2436-04	TP-86	SOIL	Pentadecafluorooctanoic acid, oct	*	150.000	J	0	0	ug/Kg
Q2436-04	TP-86	SOIL	unknown18.462	*	78.000	J	0	0	ug/Kg
			Total Tics :		**654.20**				
			Total Concentration:		**654.20**				
Client ID : TP-84									
Q2436-05	TP-84	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	240.000	AB	0	0	ug/Kg
Q2436-05	TP-84	SOIL	Benzophenone	*	130.000	J	0	0	ug/Kg
Q2436-05	TP-84	SOIL	Tricosyl trifluoroacetate	*	150.000	J	0	0	ug/Kg
Q2436-05	TP-84	SOIL	Triphenylphosphine oxide	*	72.900	J	0	0	ug/Kg
			Total Tics :		**592.90**				
			Total Concentration:		**592.90**				
Client ID : TP-83									

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Hit Summary Sheet
SW-846

SDG No.: Q2436

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2436-06	TP-83	SOIL	17-Pentatriacontene	*	150.000	J	0	0	ug/Kg
Q2436-06	TP-83	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
Q2436-06	TP-83	SOIL	Benzophenone	*	160.000	J	0	0	ug/Kg
Q2436-06	TP-83	SOIL	Heptadecyl trifluoroacetate	*	79.300	J	0	0	ug/Kg
			Total Tics :		**599.30**				
			Total Concentration:		**599.30**				
Client ID :	**TP-87**								
Q2436-07	TP-87	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0	0	ug/Kg
Q2436-07	TP-87	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
Q2436-07	TP-87	SOIL	Pentafluoropropionic acid, heptad	*	120.000	J	0	0	ug/Kg
			Total Tics :		**520.00**				
			Total Concentration:		**520.00**				
Client ID :	**TP-100**								
Q2436-08	TP-100	SOIL	Fluoranthene		78.800	J	35	200	ug/Kg
Q2436-08	TP-100	SOIL	Pyrene		81.800	J	42	200	ug/Kg
Q2436-08	TP-100	SOIL	Bis(2-ethylhexyl)phthalate		150.000	J	69	200	ug/Kg
			Total Svoc :		**310.60**				
Q2436-08	TP-100	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	220.000	AB	0	0	ug/Kg
Q2436-08	TP-100	SOIL	Benzophenone	*	130.000	J	0	0	ug/Kg
Q2436-08	TP-100	SOIL	Trifluoroacetoxy hexadecane	*	100.000	J	0	0	ug/Kg
Q2436-08	TP-100	SOIL	n-Hexadecanoic acid	*	89.800	J	0	0	ug/Kg
			Total Tics :		**539.80**				
			Total Concentration:		**850.40**				
Client ID :	**TP-99**								
Q2436-09	TP-99	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0	0	ug/Kg
Q2436-09	TP-99	SOIL	Benzophenone	*	130.000	J	0	0	ug/Kg
Q2436-09	TP-99	SOIL	Tricosyl heptafluorobutyrate	*	120.000	J	0	0	ug/Kg
			Total Tics :		**480.00**				
			Total Concentration:		**480.00**				
Client ID :	**TP-82**								
Q2436-10	TP-82	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	220.000	AB	0	0	ug/Kg
Q2436-10	TP-82	SOIL	Benzophenone	*	120.000	J	0	0	ug/Kg
Q2436-10	TP-82	SOIL	Octadecyl trifluoroacetate	*	120.000	J	0	0	ug/Kg
Q2436-10	TP-82	SOIL	Triphenylphosphine oxide	*	130.000	J	0	0	ug/Kg
			Total Tics :		**590.00**				
			Total Concentration:		**590.00**				

SAMPLE DATA

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

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142923.D	1	06/27/25 11:20	06/30/25 19:13	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	26.8	U	26.8	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.5	U	29.5	210	ug/Kg
95-57-8	2-Chlorophenol	29.6	U	29.6	210	ug/Kg
95-48-7	2-Methylphenol	36.3	U	36.3	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	45.6	U	45.6	210	ug/Kg
98-86-2	Acetophenone	35.8	U	35.8	210	ug/Kg
65794-96-9	3+4-Methylphenols	49.9	U	49.9	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	57.6	U	57.6	97.2	ug/Kg
67-72-1	Hexachloroethane	21.4	U	21.4	210	ug/Kg
98-95-3	Nitrobenzene	22.2	U	22.2	210	ug/Kg
78-59-1	Isophorone	39.8	U	39.8	210	ug/Kg
88-75-5	2-Nitrophenol	70.7	U	70.7	210	ug/Kg
105-67-9	2,4-Dimethylphenol	78.7	U	78.7	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.4	U	37.4	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.4	U	34.4	210	ug/Kg
91-20-3	Naphthalene	27.6	U	27.6	210	ug/Kg
106-47-8	4-Chloroaniline	43.0	U	43.0	210	ug/Kg
87-68-3	Hexachlorobutadiene	30.7	U	30.7	210	ug/Kg
105-60-2	Caprolactam	63.3	U	63.3	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.9	U	34.9	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.1	U	31.1	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	24.1	U	24.1	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.4	U	35.4	210	ug/Kg
92-52-4	1,1-Biphenyl	26.5	U	26.5	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.3	U	27.3	210	ug/Kg
88-74-4	2-Nitroaniline	58.4	U	58.4	210	ug/Kg
131-11-3	Dimethylphthalate	32.9	U	32.9	210	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142923.D	1	06/27/25 11:20	06/30/25 19:13	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.1	U	35.1	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.8	U	40.8	210	ug/Kg
99-09-2	3-Nitroaniline	55.9	U	55.9	210	ug/Kg
83-32-9	Acenaphthene	25.9	U	25.9	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.6	U	27.6	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	60.9	U	60.9	210	ug/Kg
84-66-2	Diethylphthalate	34.4	U	34.4	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.4	U	32.4	210	ug/Kg
86-73-7	Fluorene	30.7	U	30.7	210	ug/Kg
100-01-6	4-Nitroaniline	78.0	U	78.0	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	40.0	U	40.0	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.8	U	33.8	210	ug/Kg
118-74-1	Hexachlorobenzene	30.7	U	30.7	210	ug/Kg
1912-24-9	Atrazine	41.3	U	41.3	210	ug/Kg
87-86-5	Pentachlorophenol	62.3	U	62.3	400	ug/Kg
85-01-8	Phenanthrene	25.4	U	25.4	210	ug/Kg
120-12-7	Anthracene	40.5	U	40.5	210	ug/Kg
86-74-8	Carbazole	37.9	U	37.9	210	ug/Kg
84-74-2	Di-n-butylphthalate	58.2	U	58.2	210	ug/Kg
206-44-0	Fluoranthene	36.4	U	36.4	210	ug/Kg
129-00-0	Pyrene	43.7	U	43.7	210	ug/Kg
85-68-7	Butylbenzylphthalate	86.7	U	86.7	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	44.6	U	44.6	400	ug/Kg
56-55-3	Benzo(a)anthracene	27.9	U	27.9	210	ug/Kg
218-01-9	Chrysene	24.2	U	24.2	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	71.9	U	71.9	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.1	U	23.1	210	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142923.D	1	06/27/25 11:20	06/30/25 19:13	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.2	U	27.2	210	ug/Kg
50-32-8	Benzo(a)pyrene	35.8	U	35.8	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.4	U	35.4	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.3	U	33.3	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.2	U	31.2	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.1	U	31.1	210	ug/Kg
123-91-1	1,4-Dioxane	54.9	U	54.9	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.3	U	33.3	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	64.5		18 - 112	43%	SPK: 150
13127-88-3	Phenol-d6	64.0		15 - 107	43%	SPK: 150
4165-60-0	Nitrobenzene-d5	40.1		18 - 107	40%	SPK: 100
321-60-8	2-Fluorobiphenyl	37.5		20 - 109	37%	SPK: 100
118-79-6	2,4,6-Tribromophenol	55.2		10 - 116	37%	SPK: 150
1718-51-0	Terphenyl-d14	32.2		10 - 105	32%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	67100	6.869			
1146-65-2	Naphthalene-d8	252000	8.157			
15067-26-2	Acenaphthene-d10	129000	9.91			
1517-22-2	Phenanthrene-d10	206000	11.404			
1719-03-5	Chrysene-d12	122000	14.045			
1520-96-3	Perylene-d12	140000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	190	AB		5.08	ug/Kg
000119-61-9	Benzophenone	130	J		10.6	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142923.D	1	06/27/25 11:20	06/30/25 19:13	PB168649

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

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
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
BF142932.D	1	06/27/25 11:20	06/30/25 23:45	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	26.9	U	26.9	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.6	U	29.6	210	ug/Kg
95-57-8	2-Chlorophenol	29.7	U	29.7	210	ug/Kg
95-48-7	2-Methylphenol	36.4	U	36.4	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	45.7	U	45.7	210	ug/Kg
98-86-2	Acetophenone	36.0	U	36.0	210	ug/Kg
65794-96-9	3+4-Methylphenols	50.1	U	50.1	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	57.8	U	57.8	97.5	ug/Kg
67-72-1	Hexachloroethane	21.4	U	21.4	210	ug/Kg
98-95-3	Nitrobenzene	22.3	U	22.3	210	ug/Kg
78-59-1	Isophorone	40.0	U	40.0	210	ug/Kg
88-75-5	2-Nitrophenol	70.9	U	70.9	210	ug/Kg
105-67-9	2,4-Dimethylphenol	79.0	U	79.0	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.5	U	37.5	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.5	U	34.5	210	ug/Kg
91-20-3	Naphthalene	27.7	U	27.7	210	ug/Kg
106-47-8	4-Chloroaniline	43.1	U	43.1	210	ug/Kg
87-68-3	Hexachlorobutadiene	30.8	U	30.8	210	ug/Kg
105-60-2	Caprolactam	63.5	U	63.5	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	35.0	U	35.0	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.2	U	31.2	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	24.1	U	24.1	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.5	U	35.5	210	ug/Kg
92-52-4	1,1-Biphenyl	26.6	U	26.6	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.4	U	27.4	210	ug/Kg
88-74-4	2-Nitroaniline	58.6	U	58.6	210	ug/Kg
131-11-3	Dimethylphthalate	33.0	U	33.0	210	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
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
BF142932.D	1	06/27/25 11:20	06/30/25 23:45	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.2	U	35.2	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.9	U	40.9	210	ug/Kg
99-09-2	3-Nitroaniline	56.1	U	56.1	210	ug/Kg
83-32-9	Acenaphthene	26.0	U	26.0	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.7	U	27.7	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	61.1	U	61.1	210	ug/Kg
84-66-2	Diethylphthalate	34.5	U	34.5	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.5	U	32.5	210	ug/Kg
86-73-7	Fluorene	30.8	U	30.8	210	ug/Kg
100-01-6	4-Nitroaniline	78.2	U	78.2	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	40.1	U	40.1	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.9	U	33.9	210	ug/Kg
118-74-1	Hexachlorobenzene	30.8	U	30.8	210	ug/Kg
1912-24-9	Atrazine	41.4	U	41.4	210	ug/Kg
87-86-5	Pentachlorophenol	62.5	U	62.5	400	ug/Kg
85-01-8	Phenanthrene	25.5	U	25.5	210	ug/Kg
120-12-7	Anthracene	40.6	U	40.6	210	ug/Kg
86-74-8	Carbazole	38.0	U	38.0	210	ug/Kg
84-74-2	Di-n-butylphthalate	58.4	U	58.4	210	ug/Kg
206-44-0	Fluoranthene	36.6	U	36.6	210	ug/Kg
129-00-0	Pyrene	43.9	U	43.9	210	ug/Kg
85-68-7	Butylbenzylphthalate	87.0	U	87.0	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	44.7	U	44.7	400	ug/Kg
56-55-3	Benzo(a)anthracene	28.0	U	28.0	210	ug/Kg
218-01-9	Chrysene	24.3	U	24.3	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	72.1	U	72.1	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.2	U	23.2	210	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
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
BF142932.D	1	06/27/25 11:20	06/30/25 23:45	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.3	U	27.3	210	ug/Kg
50-32-8	Benzo(a)pyrene	36.0	U	36.0	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.5	U	35.5	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.4	U	33.4	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.3	U	31.3	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.2	U	31.2	210	ug/Kg
123-91-1	1,4-Dioxane	55.1	U	55.1	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.4	U	33.4	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	68.7		18 - 112	46%	SPK: 150
13127-88-3	Phenol-d6	67.3		15 - 107	45%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.1		18 - 107	44%	SPK: 100
321-60-8	2-Fluorobiphenyl	43.9		20 - 109	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	65.1		10 - 116	43%	SPK: 150
1718-51-0	Terphenyl-d14	30.0		10 - 105	30%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	85300	6.875			
1146-65-2	Naphthalene-d8	304000	8.157			
15067-26-2	Acenaphthene-d10	144000	9.916			
1517-22-2	Phenanthrene-d10	214000	11.404			
1719-03-5	Chrysene-d12	178000	14.045			
1520-96-3	Perylene-d12	203000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.09	ug/Kg
000119-61-9	Benzophenone	110	J		10.6	ug/Kg
000506-51-4	n-Tetracosanol-1	120	J		13.9	ug/Kg
000791-28-6	Triphenylphosphine oxide	110	J		14.1	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
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
BF142932.D	1	06/27/25 11:20	06/30/25 23:45	PB168649

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

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.1
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
BF142933.D	1	06/27/25 11:20	07/01/25 00:15	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	390	ug/Kg
108-95-2	Phenol	25.9	U	25.9	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.5	U	28.5	200	ug/Kg
95-57-8	2-Chlorophenol	28.6	U	28.6	200	ug/Kg
95-48-7	2-Methylphenol	35.1	U	35.1	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.0	U	44.0	200	ug/Kg
98-86-2	Acetophenone	34.6	U	34.6	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.2	U	48.2	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.6	U	55.6	93.9	ug/Kg
67-72-1	Hexachloroethane	20.7	U	20.7	200	ug/Kg
98-95-3	Nitrobenzene	21.5	U	21.5	200	ug/Kg
78-59-1	Isophorone	38.5	U	38.5	200	ug/Kg
88-75-5	2-Nitrophenol	68.3	U	68.3	200	ug/Kg
105-67-9	2,4-Dimethylphenol	76.0	U	76.0	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.1	U	36.1	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.2	U	33.2	200	ug/Kg
91-20-3	Naphthalene	26.6	U	26.6	200	ug/Kg
106-47-8	4-Chloroaniline	41.5	U	41.5	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.7	U	29.7	200	ug/Kg
105-60-2	Caprolactam	61.1	U	61.1	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.7	U	33.7	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.0	U	30.0	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.2	U	23.2	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.1	U	34.1	200	ug/Kg
92-52-4	1,1-Biphenyl	25.6	U	25.6	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.4	U	26.4	200	ug/Kg
88-74-4	2-Nitroaniline	56.4	U	56.4	200	ug/Kg
131-11-3	Dimethylphthalate	31.8	U	31.8	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.1
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
BF142933.D	1	06/27/25 11:20	07/01/25 00:15	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.9	U	33.9	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.4	U	39.4	200	ug/Kg
99-09-2	3-Nitroaniline	54.0	U	54.0	200	ug/Kg
83-32-9	Acenaphthene	25.0	U	25.0	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	26.6	U	26.6	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.8	U	58.8	200	ug/Kg
84-66-2	Diethylphthalate	33.2	U	33.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.3	U	31.3	200	ug/Kg
86-73-7	Fluorene	29.7	U	29.7	200	ug/Kg
100-01-6	4-Nitroaniline	75.3	U	75.3	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.6	U	38.6	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.6	U	32.6	200	ug/Kg
118-74-1	Hexachlorobenzene	29.7	U	29.7	200	ug/Kg
1912-24-9	Atrazine	39.9	U	39.9	200	ug/Kg
87-86-5	Pentachlorophenol	60.2	U	60.2	390	ug/Kg
85-01-8	Phenanthrene	24.5	U	24.5	200	ug/Kg
120-12-7	Anthracene	39.1	U	39.1	200	ug/Kg
86-74-8	Carbazole	36.6	U	36.6	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.2	U	56.2	200	ug/Kg
206-44-0	Fluoranthene	35.2	U	35.2	200	ug/Kg
129-00-0	Pyrene	42.2	U	42.2	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.8	U	83.8	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.1	U	43.1	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.0	U	27.0	200	ug/Kg
218-01-9	Chrysene	23.4	U	23.4	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	69.5	U	69.5	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.3	U	22.3	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.1
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
BF142933.D	1	06/27/25 11:20	07/01/25 00:15	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.3	U	26.3	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.6	U	34.6	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.1	U	34.1	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.2	U	32.2	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.2	U	30.2	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.0	U	30.0	200	ug/Kg
123-91-1	1,4-Dioxane	53.0	U	53.0	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.2	U	32.2	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	83.3		18 - 112	56%	SPK: 150
13127-88-3	Phenol-d6	82.6		15 - 107	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	55.3		18 - 107	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.1		20 - 109	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	76.1		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	34.5		10 - 105	34%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	65100	6.875			
1146-65-2	Naphthalene-d8	229000	8.157			
15067-26-2	Acenaphthene-d10	111000	9.91			
1517-22-2	Phenanthrene-d10	164000	11.404			
1719-03-5	Chrysene-d12	141000	14.045			
1520-96-3	Perylene-d12	150000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	310	AB		5.09	ug/Kg
000119-61-9	Benzophenone	130	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	89.6	J		11.9	ug/Kg
1000351-75-1	Tricosyl trifluoroacetate	150	J		13.9	ug/Kg
000791-28-6	Triphenylphosphine oxide	140	J		14.1	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.1
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
BF142933.D	1	06/27/25 11:20	07/01/25 00:15	PB168649

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

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142924.D	1	06/27/25 11:20	06/30/25 19:44	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	370	ug/Kg
108-95-2	Phenol	24.9	U	24.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.3	U	27.3	190	ug/Kg
95-57-8	2-Chlorophenol	27.4	U	27.4	190	ug/Kg
95-48-7	2-Methylphenol	33.6	U	33.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.2	U	42.2	190	ug/Kg
98-86-2	Acetophenone	33.2	U	33.2	190	ug/Kg
65794-96-9	3+4-Methylphenols	46.2	U	46.2	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	53.3	U	53.3	90.0	ug/Kg
67-72-1	Hexachloroethane	19.8	U	19.8	190	ug/Kg
98-95-3	Nitrobenzene	20.6	U	20.6	190	ug/Kg
78-59-1	Isophorone	36.9	U	36.9	190	ug/Kg
88-75-5	2-Nitrophenol	65.5	U	65.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.9	U	72.9	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.6	U	34.6	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.8	U	31.8	190	ug/Kg
91-20-3	Naphthalene	25.5	U	25.5	190	ug/Kg
106-47-8	4-Chloroaniline	39.8	U	39.8	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.5	U	28.5	190	ug/Kg
105-60-2	Caprolactam	58.6	U	58.6	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.3	U	32.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.8	U	28.8	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.3	U	22.3	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.7	U	32.7	190	ug/Kg
92-52-4	1,1-Biphenyl	24.5	U	24.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.3	U	25.3	190	ug/Kg
88-74-4	2-Nitroaniline	54.1	U	54.1	190	ug/Kg
131-11-3	Dimethylphthalate	30.5	U	30.5	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142924.D	1	06/27/25 11:20	06/30/25 19:44	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.5	U	32.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.8	U	37.8	190	ug/Kg
99-09-2	3-Nitroaniline	51.7	U	51.7	190	ug/Kg
83-32-9	Acenaphthene	24.0	U	24.0	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	25.5	U	25.5	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	56.4	U	56.4	190	ug/Kg
84-66-2	Diethylphthalate	31.8	U	31.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.0	U	30.0	190	ug/Kg
86-73-7	Fluorene	28.5	U	28.5	190	ug/Kg
100-01-6	4-Nitroaniline	72.2	U	72.2	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.0	U	37.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.3	U	31.3	190	ug/Kg
118-74-1	Hexachlorobenzene	28.5	U	28.5	190	ug/Kg
1912-24-9	Atrazine	38.2	U	38.2	190	ug/Kg
87-86-5	Pentachlorophenol	57.7	U	57.7	370	ug/Kg
85-01-8	Phenanthrene	23.5	U	23.5	190	ug/Kg
120-12-7	Anthracene	37.5	U	37.5	190	ug/Kg
86-74-8	Carbazole	35.1	U	35.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.9	U	53.9	190	ug/Kg
206-44-0	Fluoranthene	33.7	U	33.7	190	ug/Kg
129-00-0	Pyrene	40.5	U	40.5	190	ug/Kg
85-68-7	Butylbenzylphthalate	80.3	U	80.3	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	41.3	U	41.3	370	ug/Kg
56-55-3	Benzo(a)anthracene	25.9	U	25.9	190	ug/Kg
218-01-9	Chrysene	22.4	U	22.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	66.6	U	66.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	97.6	U	97.6	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.4	U	21.4	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142924.D	1	06/27/25 11:20	06/30/25 19:44	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.2	U	25.2	190	ug/Kg
50-32-8	Benzo(a)pyrene	33.2	U	33.2	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.7	U	32.7	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.8	U	30.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.9	U	28.9	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.8	U	28.8	190	ug/Kg
123-91-1	1,4-Dioxane	50.8	U	50.8	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.8	U	30.8	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.5		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	79.0		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.1		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.4		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	73.9		10 - 116	49%	SPK: 150
1718-51-0	Terphenyl-d14	40.9		10 - 105	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	73900	6.875			
1146-65-2	Naphthalene-d8	282000	8.157			
15067-26-2	Acenaphthene-d10	145000	9.916			
1517-22-2	Phenanthrene-d10	227000	11.404			
1719-03-5	Chrysene-d12	138000	14.045			
1520-96-3	Perylene-d12	164000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	220	AB		5.09	ug/Kg
000119-61-9	Benzophenone	120	J		10.6	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	150	J		13.9	ug/Kg
045235-48-1	1-Decanol, 2-octyl-	86.2	J		14.5	ug/Kg
	unknown18.462	78.0	J		18.5	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.7
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
BF142924.D	1	06/27/25 11:20	06/30/25 19:44	PB168649

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

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
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
BF142929.D	1	06/27/25 11:20	06/30/25 22:15	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	23.9	U	23.9	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.3	U	26.3	180	ug/Kg
95-57-8	2-Chlorophenol	26.4	U	26.4	180	ug/Kg
95-48-7	2-Methylphenol	32.4	U	32.4	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	40.6	U	40.6	180	ug/Kg
98-86-2	Acetophenone	31.9	U	31.9	180	ug/Kg
65794-96-9	3+4-Methylphenols	44.5	U	44.5	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.3	U	51.3	86.6	ug/Kg
67-72-1	Hexachloroethane	19.0	U	19.0	180	ug/Kg
98-95-3	Nitrobenzene	19.8	U	19.8	180	ug/Kg
78-59-1	Isophorone	35.5	U	35.5	180	ug/Kg
88-75-5	2-Nitrophenol	63.0	U	63.0	180	ug/Kg
105-67-9	2,4-Dimethylphenol	70.1	U	70.1	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.3	U	33.3	180	ug/Kg
120-83-2	2,4-Dichlorophenol	30.6	U	30.6	180	ug/Kg
91-20-3	Naphthalene	24.6	U	24.6	180	ug/Kg
106-47-8	4-Chloroaniline	38.3	U	38.3	180	ug/Kg
87-68-3	Hexachlorobutadiene	27.4	U	27.4	180	ug/Kg
105-60-2	Caprolactam	56.4	U	56.4	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.1	U	31.1	180	ug/Kg
91-57-6	2-Methylnaphthalene	27.7	U	27.7	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.4	U	21.4	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.5	U	31.5	180	ug/Kg
92-52-4	1,1-Biphenyl	23.6	U	23.6	180	ug/Kg
91-58-7	2-Chloronaphthalene	24.4	U	24.4	180	ug/Kg
88-74-4	2-Nitroaniline	52.1	U	52.1	180	ug/Kg
131-11-3	Dimethylphthalate	29.3	U	29.3	180	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
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
BF142929.D	1	06/27/25 11:20	06/30/25 22:15	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.3	U	31.3	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.4	U	36.4	180	ug/Kg
99-09-2	3-Nitroaniline	49.8	U	49.8	180	ug/Kg
83-32-9	Acenaphthene	23.1	U	23.1	180	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.6	U	24.6	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.2	U	54.2	180	ug/Kg
84-66-2	Diethylphthalate	30.6	U	30.6	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	28.9	U	28.9	180	ug/Kg
86-73-7	Fluorene	27.4	U	27.4	180	ug/Kg
100-01-6	4-Nitroaniline	69.5	U	69.5	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	35.6	U	35.6	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.1	U	30.1	180	ug/Kg
118-74-1	Hexachlorobenzene	27.4	U	27.4	180	ug/Kg
1912-24-9	Atrazine	36.8	U	36.8	180	ug/Kg
87-86-5	Pentachlorophenol	55.5	U	55.5	360	ug/Kg
85-01-8	Phenanthrene	22.6	U	22.6	180	ug/Kg
120-12-7	Anthracene	36.0	U	36.0	180	ug/Kg
86-74-8	Carbazole	33.8	U	33.8	180	ug/Kg
84-74-2	Di-n-butylphthalate	51.8	U	51.8	180	ug/Kg
206-44-0	Fluoranthene	32.5	U	32.5	180	ug/Kg
129-00-0	Pyrene	39.0	U	39.0	180	ug/Kg
85-68-7	Butylbenzylphthalate	77.3	U	77.3	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	39.7	U	39.7	360	ug/Kg
56-55-3	Benzo(a)anthracene	24.9	U	24.9	180	ug/Kg
218-01-9	Chrysene	21.5	U	21.5	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.1	U	64.1	180	ug/Kg
117-84-0	Di-n-octyl phthalate	93.9	U	93.9	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.6	U	20.6	180	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
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
BF142929.D	1	06/27/25 11:20	06/30/25 22:15	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.2	U	24.2	180	ug/Kg
50-32-8	Benzo(a)pyrene	31.9	U	31.9	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	31.5	U	31.5	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29.7	U	29.7	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	27.8	U	27.8	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	27.7	U	27.7	180	ug/Kg
123-91-1	1,4-Dioxane	48.9	U	48.9	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	29.7	U	29.7	180	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.9		18 - 112	59%	SPK: 150
13127-88-3	Phenol-d6	87.2		15 - 107	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	55.7		18 - 107	56%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.7		20 - 109	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	81.8		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	42.4		10 - 105	42%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	85300	6.875			
1146-65-2	Naphthalene-d8	316000	8.157			
15067-26-2	Acenaphthene-d10	159000	9.916			
1517-22-2	Phenanthrene-d10	249000	11.404			
1719-03-5	Chrysene-d12	161000	14.045			
1520-96-3	Perylene-d12	196000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	AB		5.09	ug/Kg
000119-61-9	Benzophenone	130	J		10.6	ug/Kg
1000351-75-1	Tricosyl trifluoroacetate	150	J		13.9	ug/Kg
000791-28-6	Triphenylphosphine oxide	72.9	J		14.1	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.3
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
BF142929.D	1	06/27/25 11:20	06/30/25 22:15	PB168649

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

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
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
BF142927.D	1	06/27/25 11:20	06/30/25 21:15	PB168649

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	26.8	U	26.8	190	ug/Kg
95-57-8	2-Chlorophenol	26.9	U	26.9	190	ug/Kg
95-48-7	2-Methylphenol	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	45.3	U	45.3	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	20.2	U	20.2	190	ug/Kg
78-59-1	Isophorone	36.1	U	36.1	190	ug/Kg
88-75-5	2-Nitrophenol	64.1	U	64.1	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.4	U	71.4	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	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.8	U	21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.1	U	32.1	190	ug/Kg
92-52-4	1,1-Biphenyl	24.0	U	24.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.8	U	24.8	190	ug/Kg
88-74-4	2-Nitroaniline	53.0	U	53.0	190	ug/Kg
131-11-3	Dimethylphthalate	29.9	U	29.9	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
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
BF142927.D	1	06/27/25 11:20	06/30/25 21:15	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.8	U	31.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.0	U	37.0	190	ug/Kg
99-09-2	3-Nitroaniline	50.7	U	50.7	190	ug/Kg
83-32-9	Acenaphthene	23.5	U	23.5	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	25.0	U	25.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.2	U	55.2	190	ug/Kg
84-66-2	Diethylphthalate	31.2	U	31.2	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.4	U	29.4	190	ug/Kg
86-73-7	Fluorene	27.9	U	27.9	190	ug/Kg
100-01-6	4-Nitroaniline	70.7	U	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	U	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	U	27.9	190	ug/Kg
1912-24-9	Atrazine	37.5	U	37.5	190	ug/Kg
87-86-5	Pentachlorophenol	56.5	U	56.5	360	ug/Kg
85-01-8	Phenanthrene	23.0	U	23.0	190	ug/Kg
120-12-7	Anthracene	36.7	U	36.7	190	ug/Kg
86-74-8	Carbazole	34.4	U	34.4	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.8	U	52.8	190	ug/Kg
206-44-0	Fluoranthene	33.0	U	33.0	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	40.4	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.6
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
BF142927.D	1	06/27/25 11:20	06/30/25 21:15	PB168649

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	U	32.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.1	U	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	76.8		18 - 112	51%	SPK: 150
13127-88-3	Phenol-d6	78.0		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	49.9		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.5		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	73.4		10 - 116	49%	SPK: 150
1718-51-0	Terphenyl-d14	42.1		10 - 105	42%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	66200	6.875			
1146-65-2	Naphthalene-d8	244000	8.157			
15067-26-2	Acenaphthene-d10	124000	9.91			
1517-22-2	Phenanthrene-d10	193000	11.404			
1719-03-5	Chrysene-d12	118000	14.045			
1520-96-3	Perylene-d12	142000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.09	ug/Kg
000119-61-9	Benzophenone	160	J		10.6	ug/Kg
006971-40-0	17-Pentatriacontene	150	J		13.9	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	79.3	J		14.5	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	06/25/25
Project:	South River WM Replacement			Date Received:	06/26/25
Client Sample ID:	TP-83			SDG No.:	Q2436
Lab Sample ID:	Q2436-06			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	90.6
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
BF142927.D	1	06/27/25 11:20	06/30/25 21:15	PB168649

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

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.9
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
BF142928.D	1	06/27/25 11:20	06/30/25 21:45	PB168649

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	27.0	U	27.0	190	ug/Kg
95-57-8	2-Chlorophenol	27.1	U	27.1	190	ug/Kg
95-48-7	2-Methylphenol	33.2	U	33.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.6	U	41.6	190	ug/Kg
98-86-2	Acetophenone	32.7	U	32.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.6	U	45.6	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.6	U	52.6	88.8	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	36.4	U	36.4	190	ug/Kg
88-75-5	2-Nitrophenol	64.6	U	64.6	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.9	U	71.9	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.2	U	34.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.4	U	31.4	190	ug/Kg
91-20-3	Naphthalene	25.2	U	25.2	190	ug/Kg
106-47-8	4-Chloroaniline	39.3	U	39.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.1	U	28.1	190	ug/Kg
105-60-2	Caprolactam	57.8	U	57.8	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	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.0	U	22.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.3	U	32.3	190	ug/Kg
92-52-4	1,1-Biphenyl	24.2	U	24.2	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.0	U	25.0	190	ug/Kg
88-74-4	2-Nitroaniline	53.4	U	53.4	190	ug/Kg
131-11-3	Dimethylphthalate	30.1	U	30.1	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.9
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
BF142928.D	1	06/27/25 11:20	06/30/25 21:45	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.1	U	32.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.3	U	37.3	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	25.2	U	25.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.6	U	55.6	190	ug/Kg
84-66-2	Diethylphthalate	31.4	U	31.4	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.6	U	29.6	190	ug/Kg
86-73-7	Fluorene	28.1	U	28.1	190	ug/Kg
100-01-6	4-Nitroaniline	71.2	U	71.2	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.5	U	36.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.8	U	30.8	190	ug/Kg
118-74-1	Hexachlorobenzene	28.1	U	28.1	190	ug/Kg
1912-24-9	Atrazine	37.7	U	37.7	190	ug/Kg
87-86-5	Pentachlorophenol	56.9	U	56.9	370	ug/Kg
85-01-8	Phenanthrene	23.2	U	23.2	190	ug/Kg
120-12-7	Anthracene	36.9	U	36.9	190	ug/Kg
86-74-8	Carbazole	34.6	U	34.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.1	U	53.1	190	ug/Kg
206-44-0	Fluoranthene	33.3	U	33.3	190	ug/Kg
129-00-0	Pyrene	39.9	U	39.9	190	ug/Kg
85-68-7	Butylbenzylphthalate	79.2	U	79.2	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	22.1	U	22.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.7	U	65.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	96.3	U	96.3	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.1	U	21.1	190	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.9
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
BF142928.D	1	06/27/25 11:20	06/30/25 21:45	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.9	U	24.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.7	U	32.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.3	U	32.3	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	82.4		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	81.7		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.0		18 - 107	53%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.0		20 - 109	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	78.7		10 - 116	52%	SPK: 150
1718-51-0	Terphenyl-d14	42.8		10 - 105	43%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	67200	6.869			
1146-65-2	Naphthalene-d8	248000	8.157			
15067-26-2	Acenaphthene-d10	124000	9.916			
1517-22-2	Phenanthrene-d10	194000	11.404			
1719-03-5	Chrysene-d12	121000	14.045			
1520-96-3	Perylene-d12	147000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB		5.09	ug/Kg
000119-61-9	Benzophenone	170	J		10.6	ug/Kg
959218-78-1	Pentafluoropropionic acid, heptade	120	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	06/26/25
Project:	South River WM Replacement			Date Received:	06/26/25
Client Sample ID:	TP-87			SDG No.:	Q2436
Lab Sample ID:	Q2436-07			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	89.9
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
BF142928.D	1	06/27/25 11:20	06/30/25 21:45	PB168649

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

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.6
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
BF142930.D	1	06/27/25 11:20	06/30/25 22:45	PB168649

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	25.8	U	25.8	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.3	U	28.3	200	ug/Kg
95-57-8	2-Chlorophenol	28.5	U	28.5	200	ug/Kg
95-48-7	2-Methylphenol	34.9	U	34.9	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.7	U	43.7	200	ug/Kg
98-86-2	Acetophenone	34.4	U	34.4	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.9	U	47.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.3	U	55.3	93.3	ug/Kg
67-72-1	Hexachloroethane	20.5	U	20.5	200	ug/Kg
98-95-3	Nitrobenzene	21.3	U	21.3	200	ug/Kg
78-59-1	Isophorone	38.3	U	38.3	200	ug/Kg
88-75-5	2-Nitrophenol	67.9	U	67.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.6	U	75.6	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.9	U	35.9	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.0	U	33.0	200	ug/Kg
91-20-3	Naphthalene	26.5	U	26.5	200	ug/Kg
106-47-8	4-Chloroaniline	41.3	U	41.3	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.5	U	29.5	200	ug/Kg
105-60-2	Caprolactam	60.8	U	60.8	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.5	U	33.5	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.9	U	29.9	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.1	U	23.1	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.9	U	33.9	200	ug/Kg
92-52-4	1,1-Biphenyl	25.4	U	25.4	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.2	U	26.2	200	ug/Kg
88-74-4	2-Nitroaniline	56.1	U	56.1	200	ug/Kg
131-11-3	Dimethylphthalate	31.6	U	31.6	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.6
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
BF142930.D	1	06/27/25 11:20	06/30/25 22:45	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.7	U	33.7	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.2	U	39.2	200	ug/Kg
99-09-2	3-Nitroaniline	53.6	U	53.6	200	ug/Kg
83-32-9	Acenaphthene	24.8	U	24.8	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.5	U	26.5	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.4	U	58.4	200	ug/Kg
84-66-2	Diethylphthalate	33.0	U	33.0	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.1	U	31.1	200	ug/Kg
86-73-7	Fluorene	29.5	U	29.5	200	ug/Kg
100-01-6	4-Nitroaniline	74.9	U	74.9	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.4	U	38.4	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.4	U	32.4	200	ug/Kg
118-74-1	Hexachlorobenzene	29.5	U	29.5	200	ug/Kg
1912-24-9	Atrazine	39.7	U	39.7	200	ug/Kg
87-86-5	Pentachlorophenol	59.8	U	59.8	380	ug/Kg
85-01-8	Phenanthrene	24.4	U	24.4	200	ug/Kg
120-12-7	Anthracene	38.8	U	38.8	200	ug/Kg
86-74-8	Carbazole	36.4	U	36.4	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.9	U	55.9	200	ug/Kg
206-44-0	Fluoranthene	78.8	J	35.0	200	ug/Kg
129-00-0	Pyrene	81.8	J	42.0	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.3	U	83.3	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.8	U	42.8	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.8	U	26.8	200	ug/Kg
218-01-9	Chrysene	23.2	U	23.2	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	J	69.0	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.2	U	22.2	200	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.6
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
BF142930.D	1	06/27/25 11:20	06/30/25 22:45	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.1	U	26.1	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.4	U	34.4	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.9	U	33.9	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.0	U	32.0	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.0	U	30.0	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.9	U	29.9	200	ug/Kg
123-91-1	1,4-Dioxane	52.7	U	52.7	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.0	U	32.0	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	71.1		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	70.6		15 - 107	47%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.1		18 - 107	46%	SPK: 100
321-60-8	2-Fluorobiphenyl	42.2		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	67.6		10 - 116	45%	SPK: 150
1718-51-0	Terphenyl-d14	32.1		10 - 105	32%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	82900	6.869			
1146-65-2	Naphthalene-d8	301000	8.157			
15067-26-2	Acenaphthene-d10	152000	9.91			
1517-22-2	Phenanthrene-d10	227000	11.404			
1719-03-5	Chrysene-d12	158000	14.045			
1520-96-3	Perylene-d12	190000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	220	AB		5.09	ug/Kg
000119-61-9	Benzophenone	130	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	89.8	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	100	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	06/26/25
Project:	South River WM Replacement			Date Received:	06/26/25
Client Sample ID:	TP-100			SDG No.:	Q2436
Lab Sample ID:	Q2436-08			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	85.6
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
BF142930.D	1	06/27/25 11:20	06/30/25 22:45	PB168649

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

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.2
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
BF142925.D	1	06/27/25 11:20	06/30/25 20:14	PB168649

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	24.0	U	24.0	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.3	U	26.3	180	ug/Kg
95-57-8	2-Chlorophenol	26.4	U	26.4	180	ug/Kg
95-48-7	2-Methylphenol	32.4	U	32.4	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	40.6	U	40.6	180	ug/Kg
98-86-2	Acetophenone	32.0	U	32.0	180	ug/Kg
65794-96-9	3+4-Methylphenols	44.5	U	44.5	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.4	U	51.4	86.7	ug/Kg
67-72-1	Hexachloroethane	19.1	U	19.1	180	ug/Kg
98-95-3	Nitrobenzene	19.8	U	19.8	180	ug/Kg
78-59-1	Isophorone	35.6	U	35.6	180	ug/Kg
88-75-5	2-Nitrophenol	63.1	U	63.1	180	ug/Kg
105-67-9	2,4-Dimethylphenol	70.2	U	70.2	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.4	U	33.4	180	ug/Kg
120-83-2	2,4-Dichlorophenol	30.7	U	30.7	180	ug/Kg
91-20-3	Naphthalene	24.6	U	24.6	180	ug/Kg
106-47-8	4-Chloroaniline	38.4	U	38.4	180	ug/Kg
87-68-3	Hexachlorobutadiene	27.4	U	27.4	180	ug/Kg
105-60-2	Caprolactam	56.5	U	56.5	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.1	U	31.1	180	ug/Kg
91-57-6	2-Methylnaphthalene	27.7	U	27.7	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.5	U	21.5	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.5	U	31.5	180	ug/Kg
92-52-4	1,1-Biphenyl	23.6	U	23.6	180	ug/Kg
91-58-7	2-Chloronaphthalene	24.4	U	24.4	180	ug/Kg
88-74-4	2-Nitroaniline	52.1	U	52.1	180	ug/Kg
131-11-3	Dimethylphthalate	29.4	U	29.4	180	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.2
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
BF142925.D	1	06/27/25 11:20	06/30/25 20:14	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.3	U	31.3	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.4	U	36.4	180	ug/Kg
99-09-2	3-Nitroaniline	49.9	U	49.9	180	ug/Kg
83-32-9	Acenaphthene	23.1	U	23.1	180	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.6	U	24.6	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.3	U	54.3	180	ug/Kg
84-66-2	Diethylphthalate	30.7	U	30.7	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	28.9	U	28.9	180	ug/Kg
86-73-7	Fluorene	27.4	U	27.4	180	ug/Kg
100-01-6	4-Nitroaniline	69.6	U	69.6	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	35.7	U	35.7	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.1	U	30.1	180	ug/Kg
118-74-1	Hexachlorobenzene	27.4	U	27.4	180	ug/Kg
1912-24-9	Atrazine	36.9	U	36.9	180	ug/Kg
87-86-5	Pentachlorophenol	55.6	U	55.6	360	ug/Kg
85-01-8	Phenanthrene	22.7	U	22.7	180	ug/Kg
120-12-7	Anthracene	36.1	U	36.1	180	ug/Kg
86-74-8	Carbazole	33.8	U	33.8	180	ug/Kg
84-74-2	Di-n-butylphthalate	51.9	U	51.9	180	ug/Kg
206-44-0	Fluoranthene	32.5	U	32.5	180	ug/Kg
129-00-0	Pyrene	39.0	U	39.0	180	ug/Kg
85-68-7	Butylbenzylphthalate	77.4	U	77.4	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	39.8	U	39.8	360	ug/Kg
56-55-3	Benzo(a)anthracene	24.9	U	24.9	180	ug/Kg
218-01-9	Chrysene	21.6	U	21.6	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.2	U	64.2	180	ug/Kg
117-84-0	Di-n-octyl phthalate	94.1	U	94.1	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.6	U	20.6	180	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92.2
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
BF142925.D	1	06/27/25 11:20	06/30/25 20:14	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.3	U	24.3	180	ug/Kg
50-32-8	Benzo(a)pyrene	32.0	U	32.0	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	31.5	U	31.5	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29.7	U	29.7	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	27.9	U	27.9	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	27.7	U	27.7	180	ug/Kg
123-91-1	1,4-Dioxane	49.0	U	49.0	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	29.7	U	29.7	180	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	75.4		18 - 112	50%	SPK: 150
13127-88-3	Phenol-d6	76.5		15 - 107	51%	SPK: 150
4165-60-0	Nitrobenzene-d5	46.9		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.8		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	69.6		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	42.6		10 - 105	43%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	60900	6.869			
1146-65-2	Naphthalene-d8	231000	8.157			
15067-26-2	Acenaphthene-d10	118000	9.916			
1517-22-2	Phenanthrene-d10	189000	11.404			
1719-03-5	Chrysene-d12	114000	14.045			
1520-96-3	Perylene-d12	132000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB		5.08	ug/Kg
000119-61-9	Benzophenone	130	J		10.6	ug/Kg
1000351-83-4	Tricosyl heptafluorobutyrate	120	J		13.9	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	06/26/25
Project:	South River WM Replacement			Date Received:	06/26/25
Client Sample ID:	TP-99			SDG No.:	Q2436
Lab Sample ID:	Q2436-09			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	92.2
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
BF142925.D	1	06/27/25 11:20	06/30/25 20:14	PB168649

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

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142931.D	1	06/27/25 11:20	06/30/25 23:15	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	23.9	U	23.9	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.3	U	26.3	180	ug/Kg
95-57-8	2-Chlorophenol	26.4	U	26.4	180	ug/Kg
95-48-7	2-Methylphenol	32.4	U	32.4	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	40.6	U	40.6	180	ug/Kg
98-86-2	Acetophenone	32.0	U	32.0	180	ug/Kg
65794-96-9	3+4-Methylphenols	44.5	U	44.5	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.4	U	51.4	86.7	ug/Kg
67-72-1	Hexachloroethane	19.1	U	19.1	180	ug/Kg
98-95-3	Nitrobenzene	19.8	U	19.8	180	ug/Kg
78-59-1	Isophorone	35.5	U	35.5	180	ug/Kg
88-75-5	2-Nitrophenol	63.1	U	63.1	180	ug/Kg
105-67-9	2,4-Dimethylphenol	70.2	U	70.2	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.4	U	33.4	180	ug/Kg
120-83-2	2,4-Dichlorophenol	30.7	U	30.7	180	ug/Kg
91-20-3	Naphthalene	24.6	U	24.6	180	ug/Kg
106-47-8	4-Chloroaniline	38.4	U	38.4	180	ug/Kg
87-68-3	Hexachlorobutadiene	27.4	U	27.4	180	ug/Kg
105-60-2	Caprolactam	56.5	U	56.5	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.1	U	31.1	180	ug/Kg
91-57-6	2-Methylnaphthalene	27.7	U	27.7	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.5	U	21.5	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	31.5	U	31.5	180	ug/Kg
92-52-4	1,1-Biphenyl	23.6	U	23.6	180	ug/Kg
91-58-7	2-Chloronaphthalene	24.4	U	24.4	180	ug/Kg
88-74-4	2-Nitroaniline	52.1	U	52.1	180	ug/Kg
131-11-3	Dimethylphthalate	29.4	U	29.4	180	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142931.D	1	06/27/25 11:20	06/30/25 23:15	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.3	U	31.3	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.4	U	36.4	180	ug/Kg
99-09-2	3-Nitroaniline	49.9	U	49.9	180	ug/Kg
83-32-9	Acenaphthene	23.1	U	23.1	180	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	24.6	U	24.6	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	54.3	U	54.3	180	ug/Kg
84-66-2	Diethylphthalate	30.7	U	30.7	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	28.9	U	28.9	180	ug/Kg
86-73-7	Fluorene	27.4	U	27.4	180	ug/Kg
100-01-6	4-Nitroaniline	69.6	U	69.6	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	35.7	U	35.7	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.1	U	30.1	180	ug/Kg
118-74-1	Hexachlorobenzene	27.4	U	27.4	180	ug/Kg
1912-24-9	Atrazine	36.8	U	36.8	180	ug/Kg
87-86-5	Pentachlorophenol	55.6	U	55.6	360	ug/Kg
85-01-8	Phenanthrene	22.6	U	22.6	180	ug/Kg
120-12-7	Anthracene	36.1	U	36.1	180	ug/Kg
86-74-8	Carbazole	33.8	U	33.8	180	ug/Kg
84-74-2	Di-n-butylphthalate	51.9	U	51.9	180	ug/Kg
206-44-0	Fluoranthene	32.5	U	32.5	180	ug/Kg
129-00-0	Pyrene	39.0	U	39.0	180	ug/Kg
85-68-7	Butylbenzylphthalate	77.4	U	77.4	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	39.8	U	39.8	360	ug/Kg
56-55-3	Benzo(a)anthracene	24.9	U	24.9	180	ug/Kg
218-01-9	Chrysene	21.6	U	21.6	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	64.2	U	64.2	180	ug/Kg
117-84-0	Di-n-octyl phthalate	94.1	U	94.1	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.6	U	20.6	180	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142931.D	1	06/27/25 11:20	06/30/25 23:15	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.3	U	24.3	180	ug/Kg
50-32-8	Benzo(a)pyrene	32.0	U	32.0	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	31.5	U	31.5	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	29.7	U	29.7	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	27.9	U	27.9	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	27.7	U	27.7	180	ug/Kg
123-91-1	1,4-Dioxane	49.0	U	49.0	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	29.7	U	29.7	180	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	80.1		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	78.8		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.9		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.5		20 - 109	54%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.7		10 - 116	50%	SPK: 150
1718-51-0	Terphenyl-d14	38.3		10 - 105	38%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	59100	6.875			
1146-65-2	Naphthalene-d8	215000	8.157			
15067-26-2	Acenaphthene-d10	105000	9.91			
1517-22-2	Phenanthrene-d10	158000	11.404			
1719-03-5	Chrysene-d12	118000	14.045			
1520-96-3	Perylene-d12	137000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	220	AB		5.09	ug/Kg
000119-61-9	Benzophenone	120	J		10.6	ug/Kg
079392-43-1	Octadecyl trifluoroacetate	120	J		13.9	ug/Kg
000791-28-6	Triphenylphosphine oxide	130	J		14.1	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	92
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142931.D	1	06/27/25 11:20	06/30/25 23:15	PB168649

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB168649BL	PB168649BL	2-Fluorophenol	150	125	84		18	112
		Phenol-d6	150	125	83		15	107
		Nitrobenzene-d5	100	78.4	78		18	107
		2-Fluorobiphenyl	100	78.7	79		20	109
		2,4,6-Tribromophenol	150	120	80		10	116
		Terphenyl-d14	100	72.0	72		10	105
PB168649BS	PB168649BS	2-Fluorophenol	150	128	86		18	112
		Phenol-d6	150	126	84		15	107
		Nitrobenzene-d5	100	79.9	80		18	107
		2-Fluorobiphenyl	100	84.0	84		20	109
		2,4,6-Tribromophenol	150	126	84		10	116
		Terphenyl-d14	100	71.8	72		10	105
Q2430-01MS	MH-E/FMS	2-Fluorophenol	150	90.0	60		18	112
		Phenol-d6	150	90.3	60		15	107
		Nitrobenzene-d5	100	57.0	57		18	107
		2-Fluorobiphenyl	100	57.5	57		20	109
		2,4,6-Tribromophenol	150	94.2	63		10	116
		Terphenyl-d14	100	53.9	54		10	105
Q2430-01MSD	MH-E/FMSD	2-Fluorophenol	150	89.4	60		18	112
		Phenol-d6	150	90.0	60		15	107
		Nitrobenzene-d5	100	56.7	57		18	107
		2-Fluorobiphenyl	100	55.7	56		20	109
		2,4,6-Tribromophenol	150	93.7	62		10	116
		Terphenyl-d14	100	53.5	53		10	105
Q2436-01	TP-70	2-Fluorophenol	150	64.5	43		18	112
		Phenol-d6	150	64.0	43		15	107
		Nitrobenzene-d5	100	40.1	40		18	107
		2-Fluorobiphenyl	100	37.5	37		20	109
		2,4,6-Tribromophenol	150	55.2	37		10	116
		Terphenyl-d14	100	32.2	32		10	105
Q2436-02	TP-69	2-Fluorophenol	150	68.7	46		18	112
		Phenol-d6	150	67.3	45		15	107
		Nitrobenzene-d5	100	44.1	44		18	107
		2-Fluorobiphenyl	100	43.9	44		20	109
		2,4,6-Tribromophenol	150	65.1	43		10	116
		Terphenyl-d14	100	30.0	30		10	105
Q2436-03	TP-85	2-Fluorophenol	150	83.3	56		18	112
		Phenol-d6	150	82.6	55		15	107
		Nitrobenzene-d5	100	55.3	55		18	107
		2-Fluorobiphenyl	100	53.1	53		20	109
		2,4,6-Tribromophenol	150	76.1	51		10	116
		Terphenyl-d14	100	34.5	34		10	105
Q2436-04	TP-86	2-Fluorophenol	150	79.5	53		18	112
		Phenol-d6	150	79.0	53		15	107
		Nitrobenzene-d5	100	50.1	50		18	107
		2-Fluorobiphenyl	100	46.4	46		20	109
		2,4,6-Tribromophenol	150	73.9	49		10	116
		Terphenyl-d14	100	40.9	41		10	105
Q2436-05	TP-84	2-Fluorophenol	150	87.9	59		18	112
		Phenol-d6	150	87.2	58		15	107
		Nitrobenzene-d5	100	55.7	56		18	107

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Surrogate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2436-05	TP-84	2-Fluorobiphenyl	100	52.7	53		20	109
		2,4,6-Tribromophenol	150	81.8	55		10	116
		Terphenyl-d14	100	42.4	42		10	105
Q2436-06	TP-83	2-Fluorophenol	150	76.8	51		18	112
		Phenol-d6	150	78.0	52		15	107
		Nitrobenzene-d5	100	49.9	50		18	107
		2-Fluorobiphenyl	100	49.5	49		20	109
		2,4,6-Tribromophenol	150	73.4	49		10	116
		Terphenyl-d14	100	42.1	42		10	105
Q2436-07	TP-87	2-Fluorophenol	150	82.4	55		18	112
		Phenol-d6	150	81.7	54		15	107
		Nitrobenzene-d5	100	53.0	53		18	107
		2-Fluorobiphenyl	100	52.0	52		20	109
		2,4,6-Tribromophenol	150	78.7	52		10	116
		Terphenyl-d14	100	42.8	43		10	105
Q2436-08	TP-100	2-Fluorophenol	150	71.1	47		18	112
		Phenol-d6	150	70.6	47		15	107
		Nitrobenzene-d5	100	46.1	46		18	107
		2-Fluorobiphenyl	100	42.2	42		20	109
		2,4,6-Tribromophenol	150	67.6	45		10	116
		Terphenyl-d14	100	32.1	32		10	105
Q2436-09	TP-99	2-Fluorophenol	150	75.4	50		18	112
		Phenol-d6	150	76.5	51		15	107
		Nitrobenzene-d5	100	46.9	47		18	107
		2-Fluorobiphenyl	100	47.8	48		20	109
		2,4,6-Tribromophenol	150	69.6	46		10	116
		Terphenyl-d14	100	42.6	43		10	105
Q2436-10	TP-82	2-Fluorophenol	150	80.1	53		18	112
		Phenol-d6	150	78.8	53		15	107
		Nitrobenzene-d5	100	50.9	51		18	107
		2-Fluorobiphenyl	100	53.5	54		20	109
		2,4,6-Tribromophenol	150	74.7	50		10	116
		Terphenyl-d14	100	38.3	38		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2430-01MS		**Client Sample ID: MH-E/FMS**						**DataFile: BF142921.D**			
Benzaldehyde	1100	0	650	ug/Kg	59				10	171	
Phenol	1100	0	940	ug/Kg	85				51	122	
bis(2-Chloroethyl)ether	1100	0	980	ug/Kg	89				54	125	
2-Chlorophenol	1100	0	990	ug/Kg	90				51	121	
2-Methylphenol	1100	0	960	ug/Kg	87				47	125	
2,2-oxybis(1-Chloropropane)	1100	0	920	ug/Kg	84				46	119	
Acetophenone	1100	0	1000	ug/Kg	91				55	128	
3+4-Methylphenols	1100	0	1000	ug/Kg	91				49	125	
N-Nitroso-di-n-propylamine	1100	0	990	ug/Kg	90				59	119	
Hexachloroethane	1100	0	1000	ug/Kg	91				51	116	
Nitrobenzene	1100	0	980	ug/Kg	89				47	124	
Isophorone	1100	0	980	ug/Kg	89				49	127	
2-Nitrophenol	1100	0	1000	ug/Kg	91				43	131	
2,4-Dimethylphenol	1100	0	950	ug/Kg	86				63	151	
bis(2-Chloroethoxy)methane	1100	0	990	ug/Kg	90				51	119	
2,4-Dichlorophenol	1100	0	980	ug/Kg	89				50	122	
Naphthalene	1100	0	980	ug/Kg	89				51	121	
4-Chloroaniline	1100	0	250	ug/Kg	23				10	100	
Hexachlorobutadiene	1100	0	1000	ug/Kg	91				44	126	
Caprolactam	1100	0	1000	ug/Kg	91				51	134	
4-Chloro-3-methylphenol	1100	0	980	ug/Kg	89				57	132	
2-Methylnaphthalene	1100	0	990	ug/Kg	90				59	123	
Hexachlorocyclopentadiene	2300	0	1800	ug/Kg	78				10	175	
2,4,6-Trichlorophenol	1100	0	1000	ug/Kg	91				33	141	
2,4,5-Trichlorophenol	1100	0	990	ug/Kg	90				38	135	
1,1-Biphenyl	1100	0	1000	ug/Kg	91				55	131	
2-Chloronaphthalene	1100	0	1000	ug/Kg	91				48	124	
2-Nitroaniline	1100	0	1000	ug/Kg	91				47	134	
Dimethylphthalate	1100	0	1000	ug/Kg	91				54	120	
Acenaphthylene	1100	0	1000	ug/Kg	91				57	125	
2,6-Dinitrotoluene	1100	0	1100	ug/Kg	100				48	127	
3-Nitroaniline	1100	0	450	ug/Kg	41				10	112	
Acenaphthene	1100	0	1100	ug/Kg	100				70	121	
2,4-Dinitrophenol	2300	0	1400	ug/Kg	61				10	155	
4-Nitrophenol	2300	0	1900	ug/Kg	83				10	175	
Dibenzofuran	1100	0	1000	ug/Kg	91				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	1000	ug/Kg	91				48	122	
Fluorene	1100	0	1000	ug/Kg	91				53	118	
4-Nitroaniline	1100	0	970	ug/Kg	88				29	140	
4,6-Dinitro-2-methylphenol	1100	0	870	ug/Kg	79				10	160	
N-Nitrosodiphenylamine	1100	0	1000	ug/Kg	91				73	118	
4-Bromophenyl-phenylether	1100	0	1000	ug/Kg	91				65	121	
Hexachlorobenzene	1100	0	1000	ug/Kg	91				67	118	
Atrazine	1100	0	1200	ug/Kg	109				45	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	2300	0	1800	ug/Kg	78				13	153	
Phenanthrene	1100	0	1000	ug/Kg	91				52	128	
Anthracene	1100	0	1000	ug/Kg	91				62	124	
Carbazole	1100	0	1000	ug/Kg	91				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	950	ug/Kg	86				37	122	
Butylbenzylphthalate	1100	0	1200	ug/Kg	109				44	135	
3,3-Dichlorobenzidine	1100	0	210	ug/Kg	19				15	112	
Benzo(a)anthracene	1100	0	980	ug/Kg	89				53	119	
Chrysene	1100	0	1000	ug/Kg	91				57	121	
bis(2-Ethylhexyl)phthalate	1100	0	1200	ug/Kg	109				42	169	
Di-n-octyl phthalate	1100	0	990	ug/Kg	90				51	156	
Benzo(b)fluoranthene	1100	0	970	ug/Kg	88				52	117	
Benzo(k)fluoranthene	1100	0	1100	ug/Kg	100				57	134	
Benzo(a)pyrene	1100	0	1000	ug/Kg	91				70	142	
Indeno(1,2,3-cd)pyrene	1100	0	920	ug/Kg	84				40	129	
Dibenz(a,h)anthracene	1100	0	920	ug/Kg	84				43	123	
Benzo(g,h,i)perylene	1100	0	900	ug/Kg	82				24	125	
1,2,4,5-Tetrachlorobenzene	1100	0	1000	ug/Kg	91				52	134	
1,4-Dioxane	1100	0	870	ug/Kg	79				46	112	
2,3,4,6-Tetrachlorophenol	1100	0	990	ug/Kg	90				24	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2430-01MSD		**Client Sample ID: MH-E/FMSD**						**DataFile: BF142922.D**			
Benzaldehyde	1100	0	650	ug/Kg	59		2		10	171	20
Phenol	1100	0	940	ug/Kg	85		0		51	122	20
bis(2-Chloroethyl)ether	1100	0	980	ug/Kg	89		1		54	125	20
2-Chlorophenol	1100	0	990	ug/Kg	90		1		51	121	20
2-Methylphenol	1100	0	980	ug/Kg	89		2		47	125	20
2,2-oxybis(1-Chloropropane)	1100	0	910	ug/Kg	83		1		46	119	20
Acetophenone	1100	0	1000	ug/Kg	91		1		55	128	20
3+4-Methylphenols	1100	0	1000	ug/Kg	91		0		49	125	20
N-Nitroso-di-n-propylamine	1100	0	990	ug/Kg	90		1		59	119	20
Hexachloroethane	1100	0	990	ug/Kg	90		0		51	116	20
Nitrobenzene	1100	0	970	ug/Kg	88		1		47	124	20
Isophorone	1100	0	980	ug/Kg	89		2		49	127	20
2-Nitrophenol	1100	0	1000	ug/Kg	91		9		43	131	20
2,4-Dimethylphenol	1100	0	970	ug/Kg	88		3		63	151	20
bis(2-Chloroethoxy)methane	1100	0	980	ug/Kg	89		2		51	119	20
2,4-Dichlorophenol	1100	0	990	ug/Kg	90		1		50	122	20
Naphthalene	1100	0	980	ug/Kg	89		0		51	121	20
4-Chloroaniline	1100	0	340	ug/Kg	31		48	*	10	100	20
Hexachlorobutadiene	1100	0	990	ug/Kg	90		0		44	126	20
Caprolactam	1100	0	1100	ug/Kg	100		9		51	134	20
4-Chloro-3-methylphenol	1100	0	1000	ug/Kg	91		9		57	132	20
2-Methylnaphthalene	1100	0	980	ug/Kg	89		2		59	123	20
Hexachlorocyclopentadiene	2300	0	1800	ug/Kg	78		5		10	175	20
2,4,6-Trichlorophenol	1100	0	970	ug/Kg	88		0		33	141	20
2,4,5-Trichlorophenol	1100	0	960	ug/Kg	87		2		38	135	20
1,1-Biphenyl	1100	0	990	ug/Kg	90		5		55	131	20
2-Chloronaphthalene	1100	0	980	ug/Kg	89		5		48	124	20
2-Nitroaniline	1100	0	1000	ug/Kg	91		0		47	134	20
Dimethylphthalate	1100	0	1000	ug/Kg	91		9		54	120	20
Acenaphthylene	1100	0	980	ug/Kg	89		2		57	125	20
2,6-Dinitrotoluene	1100	0	1000	ug/Kg	91		9		48	127	20
3-Nitroaniline	1100	0	550	ug/Kg	50		2		10	112	20
Acenaphthene	1100	0	1000	ug/Kg	91		1		70	121	20
2,4-Dinitrophenol	2300	0	1500	ug/Kg	65		13		10	155	20
4-Nitrophenol	2300	0	1900	ug/Kg	83		19		10	175	20
Dibenzofuran	1100	0	980	ug/Kg	89		2		52	114	20
2,4-Dinitrotoluene	1100	0	1000	ug/Kg	91		9		41	140	20
Diethylphthalate	1100	0	1100	ug/Kg	100		0		51	119	20
4-Chlorophenyl-phenylether	1100	0	990	ug/Kg	90		1		48	122	20
Fluorene	1100	0	990	ug/Kg	90		0		53	118	20
4-Nitroaniline	1100	0	990	ug/Kg	90		19		29	140	20
4,6-Dinitro-2-methylphenol	1100	0	940	ug/Kg	85		14		10	160	20
N-Nitrosodiphenylamine	1100	0	1000	ug/Kg	91		7		73	118	20
4-Bromophenyl-phenylether	1100	0	1000	ug/Kg	91		4		65	121	20
Hexachlorobenzene	1100	0	1000	ug/Kg	91		6		67	118	20
Atrazine	1100	0	1200	ug/Kg	109		0		45	175	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2436

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	2300	0	1800	ug/Kg	78		0		13	153	20
Phenanthrene	1100	0	1000	ug/Kg	91		4		52	128	20
Anthracene	1100	0	1000	ug/Kg	91		4		62	124	20
Carbazole	1100	0	1000	ug/Kg	91		9		59	119	20
Di-n-butylphthalate	1100	0	1200	ug/Kg	109		0		55	125	20
Fluoranthene	1100	0	1000	ug/Kg	91		9		44	125	20
Pyrene	1100	0	950	ug/Kg	86		0		37	122	20
Butylbenzylphthalate	1100	0	1200	ug/Kg	109		15		44	135	20
3,3-Dichlorobenzidine	1100	0	340	ug/Kg	31		14		15	112	20
Benzo(a)anthracene	1100	0	980	ug/Kg	89		2		53	119	20
Chrysene	1100	0	1000	ug/Kg	91		1		57	121	20
bis(2-Ethylhexyl)phthalate	1100	0	1200	ug/Kg	109		0		42	169	20
Di-n-octyl phthalate	1100	0	1000	ug/Kg	91		4		51	156	20
Benzo(b)fluoranthene	1100	0	1100	ug/Kg	100		9		52	117	20
Benzo(k)fluoranthene	1100	0	950	ug/Kg	86		6		57	134	20
Benzo(a)pyrene	1100	0	1000	ug/Kg	91		0		70	142	20
Indeno(1,2,3-cd)pyrene	1100	0	920	ug/Kg	84		27	*	40	129	20
Dibenz(a,h)anthracene	1100	0	910	ug/Kg	83		24	*	43	123	20
Benzo(g,h,i)perylene	1100	0	890	ug/Kg	81		38	*	24	125	20
1,2,4,5-Tetrachlorobenzene	1100	0	990	ug/Kg	90		6		52	134	20
1,4-Dioxane	1100	0	840	ug/Kg	76		1		46	112	20
2,3,4,6-Tetrachlorophenol	1100	0	970	ug/Kg	88		3		24	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF142948.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168649BS	Benzaldehyde	1700	920	ug/Kg	54				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				51	100	
	Acetophenone	1700	1500	ug/Kg	88				66	98	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				63	95	
	Hexachloroethane	1700	1500	ug/Kg	88				72	108	
	Nitrobenzene	1700	1500	ug/Kg	88				57	101	
	Isophorone	1700	1500	ug/Kg	88				59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1400	ug/Kg	82				46	141	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				66	97	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	Naphthalene	1700	1500	ug/Kg	88				62	100	
	4-Chloroaniline	1700	730	ug/Kg	43				16	100	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1500	ug/Kg	88				60	104	
	Hexachlorocyclopentadiene	3300	3100	ug/Kg	94				45	165	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				58	99	
	2-Nitroaniline	1700	1500	ug/Kg	88				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	910	ug/Kg	54				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3000	ug/Kg	91				37	128	
	4-Nitrophenol	3300	2800	ug/Kg	85				48	119	
	Dibenzofuran	1700	1500	ug/Kg	88				63	99	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				58	98	
	Fluorene	1700	1500	ug/Kg	88				61	101	
	4-Nitroaniline	1700	1400	ug/Kg	82				64	103	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				76	113	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				71	99	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				66	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436 **Analytical Method:** 8270E

Client: CDM Smith **DataFile:** BF142948.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168649BS	Hexachlorobenzene	1700	1600	ug/Kg	94				64	98	
	Atrazine	1700	1700	ug/Kg	100				47	152	
	Pentachlorophenol	3300	2900	ug/Kg	88				67	105	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1700	ug/Kg	100				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1300	ug/Kg	76				59	103	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				55	103	
	3,3-Dichlorobenzidine	1700	860	ug/Kg	51				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				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	1800	ug/Kg	106				52	137	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1700	ug/Kg	100				62	109	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				63	101	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				61	112	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				53	101	
	1,4-Dioxane	1700	1200	ug/Kg	71				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				59	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168649BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: BF142947.D Lab Sample ID: PB168649BL

Instrument ID: BNA_F Date Extracted: 06/27/2025

Matrix: (soil/water) SOIL Date Analyzed: 07/01/2025

Level: (low/med) LOW Time Analyzed: 13:49

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168649BS	PB168649BS	BF142948.D	07/01/2025
MH-E/FMS	Q2430-01MS	BF142921.D	06/30/2025
MH-E/FMSD	Q2430-01MSD	BF142922.D	06/30/2025
TP-70	Q2436-01	BF142923.D	06/30/2025
TP-86	Q2436-04	BF142924.D	06/30/2025
TP-69	Q2436-02	BF142932.D	06/30/2025
TP-85	Q2436-03	BF142933.D	07/01/2025
TP-99	Q2436-09	BF142925.D	06/30/2025
TP-83	Q2436-06	BF142927.D	06/30/2025
TP-87	Q2436-07	BF142928.D	06/30/2025
TP-84	Q2436-05	BF142929.D	06/30/2025
TP-100	Q2436-08	BF142930.D	06/30/2025
TP-82	Q2436-10	BF142931.D	06/30/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2436 SDG NO.: Q2436

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

Instrument ID: BNA_F DFTPP Injection Time: 16:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
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

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: BF142915.D DFTPP Injection Date: 06/30/2025

Instrument ID: BNA_F DFTPP Injection Time: 15:05

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	30
70	Less than 2.0% of mass 69	0.2 (0.7) 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	5.9
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.9 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142916.D	06/30/2025	15:35
MH-E/FMS	Q2430-01MS	BF142921.D	06/30/2025	18:13
MH-E/FMSD	Q2430-01MSD	BF142922.D	06/30/2025	18:43
TP-70	Q2436-01	BF142923.D	06/30/2025	19:13
TP-86	Q2436-04	BF142924.D	06/30/2025	19:44
TP-99	Q2436-09	BF142925.D	06/30/2025	20:14
TP-83	Q2436-06	BF142927.D	06/30/2025	21:15
TP-87	Q2436-07	BF142928.D	06/30/2025	21:45
TP-84	Q2436-05	BF142929.D	06/30/2025	22:15
TP-100	Q2436-08	BF142930.D	06/30/2025	22:45
TP-82	Q2436-10	BF142931.D	06/30/2025	23:15
TP-69	Q2436-02	BF142932.D	06/30/2025	23:45
TP-85	Q2436-03	BF142933.D	07/01/2025	00:15

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2436 SDG NO.: Q2436

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

Instrument ID: BNA_F DFTPP Injection Time: 09:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (1.6) 1
69	Mass 69 relative abundance	27.4
70	Less than 2.0% of mass 69	0.1 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.6
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142941.D	07/01/2025	10:47
PB168649BL	PB168649BL	BF142947.D	07/01/2025	13:49
PB168649BS	PB168649BS	BF142948.D	07/01/2025	14:20

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/30/2025

Lab File ID: BF142916.D Time Analyzed: 15:35

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	68508	6.875	263015	8.16	132502	9.92
	UPPER LIMIT	137016	7.375	526030	8.663	265004	10.416
	LOWER LIMIT	34254	6.375	131508	7.663	66251	9.416
	EPA SAMPLE NO.						
01	MH-E/FMS	63433	6.88	239823	8.16	122332	9.92
02	MH-E/FMSD	69029	6.88	260392	8.16	136177	9.92
03	TP-70	67119	6.87	251731	8.16	128727	9.91
04	TP-69	85276	6.88	304409	8.16	144216	9.92
05	TP-85	65146	6.88	228866	8.16	111359	9.91
06	TP-86	73916	6.88	282423	8.16	144734	9.92
07	TP-84	85331	6.88	316172	8.16	159254	9.92
08	TP-83	66171	6.88	243586	8.16	123597	9.91
09	TP-87	67163	6.87	247558	8.16	123575	9.92
10	TP-100	82922	6.87	301152	8.16	152386	9.91
11	TP-99	60859	6.87	231337	8.16	118257	9.92
12	TP-82	59138	6.88	215117	8.16	105121	9.91

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/30/2025

Lab File ID: BF142916.D Time Analyzed: 15:35

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	208976	11.41	119597	14.057	138896	15.545
	UPPER LIMIT	417952	11.91	239194	14.557	277792	16.045
	LOWER LIMIT	104488	10.91	59798.5	13.557	69448	15.045
	EPA SAMPLE NO.						
01	MH-E/FMS	205148	11.40	122398	14.05	140375	15.54
02	MH-E/FMSD	223120	11.40	130553	14.05	155370	15.55
03	TP-70	205881	11.40	122352	14.05	139575	15.54
04	TP-69	213538	11.40	178308	14.05	202825	15.54
05	TP-85	163727	11.40	141022	14.05	150265	15.54
06	TP-86	227000	11.40	138055	14.05	164219	15.54
07	TP-84	249233	11.40	161494	14.05	195795	15.54
08	TP-83	193271	11.40	118249	14.05	142467	15.54
09	TP-87	193646	11.40	120667	14.05	147185	15.54
10	TP-100	226895	11.40	157749	14.05	189699	15.54
11	TP-99	188531	11.40	113906	14.05	131680	15.54
12	TP-82	158342	11.40	117784	14.05	136540	15.54

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/01/2025

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

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	52800	6.875	192179	8.16	92751	9.92
	UPPER LIMIT	105600	7.375	384358	8.657	185502	10.416
	LOWER LIMIT	26400	6.375	96089.5	7.657	46375.5	9.416
	EPA SAMPLE NO.						
01	PB168649BL	62411	6.88	241848	8.16	125672	9.91
02	PB168649BS	61044	6.88	231195	8.16	114663	9.92

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/01/2025

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

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	139048	11.404	102522	14.051	129198	15.539
	UPPER LIMIT	278096	11.904	205044	14.551	258396	16.039
	LOWER LIMIT	69524	10.904	51261	13.551	64599	15.039
	EPA SAMPLE NO.						
01	PB168649BL	200491	11.40	116239	14.05	140657	15.54
02	PB168649BS	176464	11.40	114544	14.05	137043	15.54

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

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

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

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168649BL	SDG No.:	Q2436
Lab Sample ID:	PB168649BL	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
BF142947.D	1	06/27/25 11:20	07/01/25 13:49	PB168649

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168649BL	SDG No.:	Q2436
Lab Sample ID:	PB168649BL	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
BF142947.D	1	06/27/25 11:20	07/01/25 13:49	PB168649

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

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168649BL			SDG No.:	Q2436
Lab Sample ID:	PB168649BL			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
BF142947.D	1	06/27/25 11:20	07/01/25 13:49	PB168649

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	125		18 - 112	84%	SPK: 150
13127-88-3	Phenol-d6	125		15 - 107	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.4		18 - 107	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.7		20 - 109	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		10 - 116	80%	SPK: 150
1718-51-0	Terphenyl-d14	72.0		10 - 105	72%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	62400	6.875			
1146-65-2	Naphthalene-d8	242000	8.157			
15067-26-2	Acenaphthene-d10	126000	9.91			
1517-22-2	Phenanthrene-d10	200000	11.404			
1719-03-5	Chrysene-d12	116000	14.045			
1520-96-3	Perylene-d12	141000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	310	A		5.10	ug/Kg

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Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168649BL			SDG No.:	Q2436
Lab Sample ID:	PB168649BL			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
BF142947.D	1	06/27/25 11:20	07/01/25 13:49	PB168649

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

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168649BS	SDG No.:	Q2436
Lab Sample ID:	PB168649BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142948.D	1	06/27/25 11:20	07/01/25 14:20	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	920		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1500		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		37.5	170	ug/Kg
98-86-2	Acetophenone	1500		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		47.4	80.0	ug/Kg
67-72-1	Hexachloroethane	1500		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1500		18.3	170	ug/Kg
78-59-1	Isophorone	1500		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1500		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	730		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		25.3	170	ug/Kg
105-60-2	Caprolactam	1500		52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1500		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1500		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168649BS	SDG No.:	Q2436
Lab Sample ID:	PB168649BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142948.D	1	06/27/25 11:20	07/01/25 14:20	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	910		46.0	170	ug/Kg
83-32-9	Acenaphthene	1600		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3000	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	2800	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1500		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		50.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		26.7	170	ug/Kg
86-73-7	Fluorene	1500		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1400		64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		25.3	170	ug/Kg
1912-24-9	Atrazine	1700		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	2900	E	51.3	330	ug/Kg
85-01-8	Phenanthrene	1500		20.9	170	ug/Kg
120-12-7	Anthracene	1500		33.3	170	ug/Kg
86-74-8	Carbazole	1500		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		47.9	170	ug/Kg
206-44-0	Fluoranthene	1500		30.0	170	ug/Kg
129-00-0	Pyrene	1300		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	860		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		23.0	170	ug/Kg
218-01-9	Chrysene	1600		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		86.8	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		19.0	170	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168649BS	SDG No.:	Q2436
Lab Sample ID:	PB168649BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142948.D	1	06/27/25 11:20	07/01/25 14:20	PB168649

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	1600		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		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	1200		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	128		18 - 112	86%	SPK: 150
13127-88-3	Phenol-d6	126		15 - 107	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.9		18 - 107	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.0		20 - 109	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		10 - 116	84%	SPK: 150
1718-51-0	Terphenyl-d14	71.8		10 - 105	72%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	61000	6.875			
1146-65-2	Naphthalene-d8	231000	8.157			
15067-26-2	Acenaphthene-d10	115000	9.916			
1517-22-2	Phenanthrene-d10	176000	11.404			
1719-03-5	Chrysene-d12	115000	14.051			
1520-96-3	Perylene-d12	137000	15.539			

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	MH-E/FMS	SDG No.:	Q2436
Lab Sample ID:	Q2430-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.2
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
BF142921.D	1	06/27/25 11:20	06/30/25 18:13	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	650		110	220	ug/Kg
108-95-2	Phenol	940		15.0	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	980		16.5	120	ug/Kg
95-57-8	2-Chlorophenol	990		16.6	120	ug/Kg
95-48-7	2-Methylphenol	960		20.3	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	920		25.5	120	ug/Kg
98-86-2	Acetophenone	1000		20.0	120	ug/Kg
65794-96-9	3+4-Methylphenols	1000		27.9	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	990		32.2	54.3	ug/Kg
67-72-1	Hexachloroethane	1000		12.0	120	ug/Kg
98-95-3	Nitrobenzene	980		12.4	120	ug/Kg
78-59-1	Isophorone	980		22.3	120	ug/Kg
88-75-5	2-Nitrophenol	1000		39.5	120	ug/Kg
105-67-9	2,4-Dimethylphenol	950		44.0	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	990		20.9	120	ug/Kg
120-83-2	2,4-Dichlorophenol	980		19.2	120	ug/Kg
91-20-3	Naphthalene	980		15.4	120	ug/Kg
106-47-8	4-Chloroaniline	250		24.0	120	ug/Kg
87-68-3	Hexachlorobutadiene	1000		17.2	120	ug/Kg
105-60-2	Caprolactam	1000		35.4	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	980		19.5	120	ug/Kg
91-57-6	2-Methylnaphthalene	990		17.4	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1800	E	78.8	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1000		13.5	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	990		19.8	120	ug/Kg
92-52-4	1,1-Biphenyl	1000		14.8	120	ug/Kg
91-58-7	2-Chloronaphthalene	1000		15.3	120	ug/Kg
88-74-4	2-Nitroaniline	1000		32.7	120	ug/Kg
131-11-3	Dimethylphthalate	1000		18.4	120	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	MH-E/FMS	SDG No.:	Q2436
Lab Sample ID:	Q2430-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.2
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
BF142921.D	1	06/27/25 11:20	06/30/25 18:13	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1000		19.6	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		22.8	120	ug/Kg
99-09-2	3-Nitroaniline	450		31.2	120	ug/Kg
83-32-9	Acenaphthene	1100		14.5	120	ug/Kg
51-28-5	2,4-Dinitrophenol	1400		160	220	ug/Kg
100-02-7	4-Nitrophenol	1900	E	72.7	220	ug/Kg
132-64-9	Dibenzofuran	1000		15.4	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		34.0	120	ug/Kg
84-66-2	Diethylphthalate	1100		19.2	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1000		18.1	120	ug/Kg
86-73-7	Fluorene	1000		17.2	120	ug/Kg
100-01-6	4-Nitroaniline	970		43.6	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	870		70.0	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1000		22.3	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000		18.9	120	ug/Kg
118-74-1	Hexachlorobenzene	1000		17.2	120	ug/Kg
1912-24-9	Atrazine	1200		23.1	120	ug/Kg
87-86-5	Pentachlorophenol	1800	E	34.8	220	ug/Kg
85-01-8	Phenanthrene	1000		14.2	120	ug/Kg
120-12-7	Anthracene	1000		22.6	120	ug/Kg
86-74-8	Carbazole	1000		21.2	120	ug/Kg
84-74-2	Di-n-butylphthalate	1200		32.5	120	ug/Kg
206-44-0	Fluoranthene	1000		20.4	120	ug/Kg
129-00-0	Pyrene	950		24.5	120	ug/Kg
85-68-7	Butylbenzylphthalate	1200		48.5	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	210	J	24.9	220	ug/Kg
56-55-3	Benzo(a)anthracene	980		15.6	120	ug/Kg
218-01-9	Chrysene	1000		13.5	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1200		40.2	120	ug/Kg
117-84-0	Di-n-octyl phthalate	990		59.0	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	970		12.9	120	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	MH-E/FMS	SDG No.:	Q2436
Lab Sample ID:	Q2430-01MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.2
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
BF142921.D	1	06/27/25 11:20	06/30/25 18:13	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1100		15.2	120	ug/Kg
50-32-8	Benzo(a)pyrene	1000		20.0	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	920		19.8	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	920		18.6	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	900		17.5	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1000		17.4	120	ug/Kg
123-91-1	1,4-Dioxane	870		30.7	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	990		18.6	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	90.0		18 - 112	60%	SPK: 150
13127-88-3	Phenol-d6	90.3		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.0		18 - 107	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.5		20 - 109	57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.2		10 - 116	63%	SPK: 150
1718-51-0	Terphenyl-d14	53.9		10 - 105	54%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	63400	6.875			
1146-65-2	Naphthalene-d8	240000	8.157			
15067-26-2	Acenaphthene-d10	122000	9.916			
1517-22-2	Phenanthrene-d10	205000	11.404			
1719-03-5	Chrysene-d12	122000	14.051			
1520-96-3	Perylene-d12	140000	15.539			

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

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	MH-E/FMSD	SDG No.:	Q2436
Lab Sample ID:	Q2430-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.2
Sample Wt/Vol:	50.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142922.D	1	06/27/25 11:20	06/30/25 18:43	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	650		110	220	ug/Kg
108-95-2	Phenol	940		15.0	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	980		16.5	120	ug/Kg
95-57-8	2-Chlorophenol	990		16.6	120	ug/Kg
95-48-7	2-Methylphenol	980		20.3	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	910		25.5	120	ug/Kg
98-86-2	Acetophenone	1000		20.0	120	ug/Kg
65794-96-9	3+4-Methylphenols	1000		27.9	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	990		32.2	54.3	ug/Kg
67-72-1	Hexachloroethane	990		12.0	120	ug/Kg
98-95-3	Nitrobenzene	970		12.4	120	ug/Kg
78-59-1	Isophorone	980		22.3	120	ug/Kg
88-75-5	2-Nitrophenol	1000		39.5	120	ug/Kg
105-67-9	2,4-Dimethylphenol	970		44.0	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	980		20.9	120	ug/Kg
120-83-2	2,4-Dichlorophenol	990		19.2	120	ug/Kg
91-20-3	Naphthalene	980		15.4	120	ug/Kg
106-47-8	4-Chloroaniline	340		24.0	120	ug/Kg
87-68-3	Hexachlorobutadiene	990		17.2	120	ug/Kg
105-60-2	Caprolactam	1100		35.4	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1000		19.5	120	ug/Kg
91-57-6	2-Methylnaphthalene	980		17.4	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1800	E	78.8	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	970		13.4	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	960		19.8	120	ug/Kg
92-52-4	1,1-Biphenyl	990		14.8	120	ug/Kg
91-58-7	2-Chloronaphthalene	980		15.3	120	ug/Kg
88-74-4	2-Nitroaniline	1000		32.7	120	ug/Kg
131-11-3	Dimethylphthalate	1000		18.4	120	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	MH-E/FMSD	SDG No.:	Q2436
Lab Sample ID:	Q2430-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.2
Sample Wt/Vol:	50.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142922.D	1	06/27/25 11:20	06/30/25 18:43	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	980		19.6	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000		22.8	120	ug/Kg
99-09-2	3-Nitroaniline	550		31.2	120	ug/Kg
83-32-9	Acenaphthene	1000		14.5	120	ug/Kg
51-28-5	2,4-Dinitrophenol	1500		160	220	ug/Kg
100-02-7	4-Nitrophenol	1900	E	72.7	220	ug/Kg
132-64-9	Dibenzofuran	980		15.4	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1000		34.0	120	ug/Kg
84-66-2	Diethylphthalate	1100		19.2	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	990		18.1	120	ug/Kg
86-73-7	Fluorene	990		17.2	120	ug/Kg
100-01-6	4-Nitroaniline	990		43.6	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	940		69.9	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1000		22.3	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000		18.9	120	ug/Kg
118-74-1	Hexachlorobenzene	1000		17.2	120	ug/Kg
1912-24-9	Atrazine	1200		23.1	120	ug/Kg
87-86-5	Pentachlorophenol	1800	E	34.8	220	ug/Kg
85-01-8	Phenanthrene	1000		14.2	120	ug/Kg
120-12-7	Anthracene	1000		22.6	120	ug/Kg
86-74-8	Carbazole	1000		21.2	120	ug/Kg
84-74-2	Di-n-butylphthalate	1200		32.5	120	ug/Kg
206-44-0	Fluoranthene	1000		20.4	120	ug/Kg
129-00-0	Pyrene	950		24.4	120	ug/Kg
85-68-7	Butylbenzylphthalate	1200		48.5	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	340		24.9	220	ug/Kg
56-55-3	Benzo(a)anthracene	980		15.6	120	ug/Kg
218-01-9	Chrysene	1000		13.5	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1200		40.2	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1000		58.9	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	1100		12.9	120	ug/Kg

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	MH-E/FMSD	SDG No.:	Q2436
Lab Sample ID:	Q2430-01MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	88.2
Sample Wt/Vol:	50.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142922.D	1	06/27/25 11:20	06/30/25 18:43	PB168649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	950		15.2	120	ug/Kg
50-32-8	Benzo(a)pyrene	1000		20.0	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	920		19.8	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	910		18.6	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	890		17.5	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	990		17.4	120	ug/Kg
123-91-1	1,4-Dioxane	840		30.7	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	970		18.6	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	89.4		18 - 112	60%	SPK: 150
13127-88-3	Phenol-d6	90.0		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	56.7		18 - 107	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.7		20 - 109	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	93.7		10 - 116	62%	SPK: 150
1718-51-0	Terphenyl-d14	53.5		10 - 105	53%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	69000	6.875			
1146-65-2	Naphthalene-d8	260000	8.157			
15067-26-2	Acenaphthene-d10	136000	9.916			
1517-22-2	Phenanthrene-d10	223000	11.404			
1719-03-5	Chrysene-d12	131000	14.051			
1520-96-3	Perylene-d12	155000	15.545			

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

CALIBRATION SUMMARY

Response Factor Report BNA_F

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

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

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

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

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

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

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

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

Instrument ID: BNA_F Calibration Date/Time: 06/30/2025 15:35

Lab File ID: BF142916.D Init. Calib. Date(s): 06/19/2025 06/19/2025

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.201	1.259		4.8	
Benzaldehyde	0.841	0.749		-10.9	
Phenol-d6	1.417	1.469		3.7	
Phenol	1.575	1.622		3.0	20.0
bis(2-Chloroethyl)ether	1.126	1.177		4.5	
2-Chlorophenol	1.296	1.364		5.2	
2-Methylphenol	0.982	1.023		4.2	
2,2-oxybis(1-Chloropropane)	1.809	1.775		-1.9	
Acetophenone	0.441	0.450		2.0	
3+4-Methylphenols	1.224	1.289		5.3	
n-Nitroso-di-n-propylamine	0.824	0.852	0.050	3.4	
Nitrobenzene-d5	0.365	0.436		19.5	
Hexachloroethane	0.511	0.544		6.5	
Nitrobenzene	0.330	0.336		1.8	
Isophorone	0.585	0.582		-0.5	
2-Nitrophenol	0.180	0.189		5.0	20.0
2,4-Dimethylphenol	0.311	0.316		1.6	
bis(2-Chloroethoxy)methane	0.372	0.374		0.5	
2,4-Dichlorophenol	0.282	0.292		3.5	20.0
Naphthalene	0.979	0.992		1.3	
4-Chloroaniline	0.398	0.399		0.3	
Hexachlorobutadiene	0.190	0.198		4.2	20.0
Caprolactam	0.075	0.075		0.0	
4-Chloro-3-methylphenol	0.281	0.281		0.0	20.0
2-Methylnaphthalene	0.607	0.607		0.0	
Hexachlorocyclopentadiene	0.335	0.325	0.050	-3.0	
2,4,6-Trichlorophenol	0.385	0.392		1.8	20.0
2-Fluorobiphenyl	1.522	1.795		17.9	
2,4,5-Trichlorophenol	0.405	0.421		4.0	
1,1-Biphenyl	1.580	1.626		2.9	
2-Chloronaphthalene	1.186	1.221		3.0	
2-Nitroaniline	0.332	0.343		3.3	
Dimethylphthalate	1.295	1.343		3.7	
Acenaphthylene	1.952	2.004		2.7	
2,6-Dinitrotoluene	0.284	0.293		3.2	
3-Nitroaniline	0.313	0.320		2.2	
Acenaphthene	1.191	1.224		2.8	20.0
2,4-Dinitrophenol	0.142	0.137	0.050	-3.5	
4-Nitrophenol	0.214	0.207	0.050	-3.3	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

Instrument ID: BNA_F Calibration Date/Time: 06/30/2025 15:35

Lab File ID: BF142916.D Init. Calib. Date(s): 06/19/2025 06/19/2025

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.708	1.735		1.6	
2,4-Dinitrotoluene	0.378	0.392		3.7	
Diethylphthalate	1.269	1.310		3.2	
4-Chlorophenyl-phenylether	0.636	0.652		2.5	
Fluorene	1.334	1.357		1.7	
4-Nitroaniline	0.286	0.291		1.7	
4,6-Dinitro-2-methylphenol	0.121	0.128		5.8	
n-Nitrosodiphenylamine	0.693	0.733		5.8	20.0
2,4,6-Tribromophenol	0.206	0.207		0.5	
4-Bromophenyl-phenylether	0.228	0.244		7.0	
Hexachlorobenzene	0.253	0.265		4.7	
Atrazine	0.179	0.197		10.1	
Pentachlorophenol	0.126	0.124		-1.6	20.0
Phenanthrene	1.083	1.115		3.0	
Anthracene	1.111	1.158		4.2	
Carbazole	0.959	0.985		2.7	
Di-n-butylphthalate	0.999	1.089		9.0	
Fluoranthene	1.028	1.021		-0.7	20.0
Pyrene	1.875	1.763		-6.0	
Terphenyl-d14	1.447	1.557		7.6	
Butylbenzylphthalate	0.544	0.614		12.9	
3,3-Dichlorobenzidine	0.438	0.480		9.6	
Benzo(a)anthracene	1.349	1.401		3.9	
Chrysene	1.204	1.237		2.7	
Bis(2-ethylhexyl)phthalate	0.782	0.891		13.9	
Di-n-octyl phthalate	1.475	1.586		7.5	20.0
Benzo(b)fluoranthene	1.157	1.202		3.9	
Benzo(k)fluoranthene	1.083	1.109		2.4	
Benzo(a)pyrene	1.118	1.174		5.0	20.0
Indeno(1,2,3-cd)pyrene	1.523	1.515		-0.5	
Dibenzo(a,h)anthracene	1.238	1.239		0.1	
Benzo(g,h,i)perylene	1.234	1.215		-1.5	
1,2,4,5-Tetrachlorobenzene	0.590	0.618		4.7	
1,4-Dioxane	0.480	0.489		1.9	20.0
2,3,4,6-Tetrachlorophenol	0.326	0.332		1.8	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

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

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

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

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

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

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

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

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

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

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

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

All other compounds must meet a minimum RRF of 0.010.

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LAB CHRONICLE

OrderID:	Q2436	**OrderDate:**	6/26/2025 3:41:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2436-01	**TP-70**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-02	**TP-69**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-03	**TP-85**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-04	**TP-86**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-05	**TP-84**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-06	**TP-83**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	

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LAB CHRONICLE

			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-07	**TP-87**	**SOIL**			**06/26/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-08	**TP-100**	**SOIL**			**06/26/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-09	**TP-99**	**SOIL**			**06/26/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-10	**TP-82**	**SOIL**			**06/26/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2436 **Order ID:** Q2436

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**TP-83**							
Q2436-06	TP-83	SOIL	4,4-DDE	0.26	J	0.15	1.90	ug/kg
			Total Concentration:	**0.260**				
Client ID :	**TP-87**							
Q2436-07	TP-87	SOIL	4,4-DDE	0.19	J	0.16	1.90	ug/kg
			Total Concentration:	**0.190**				
Client ID :	**TP-100**							
Q2436-08	TP-100	SOIL	Heptachlor epoxide	1.40	J	0.22	2.00	ug/kg
Q2436-08	TP-100	SOIL	Dieldrin	1.10	J	0.16	2.00	ug/kg
Q2436-08	TP-100	SOIL	alpha-Chlordane	22.9	P	0.14	2.00	ug/kg
Q2436-08	TP-100	SOIL	gamma-Chlordane	12.9		0.17	2.00	ug/kg
			Total Concentration:	**38.300**				
Client ID :	**TP-99**							
Q2436-09	TP-99	SOIL	4,4-DDT	0.22	J	0.15	1.80	ug/kg
			Total Concentration:	**0.220**				
Client ID :	**TP-82**							
Q2436-10	TP-82	SOIL	Heptachlor epoxide	0.33	J	0.21	1.80	ug/kg
Q2436-10	TP-82	SOIL	Dieldrin	0.62	J	0.15	1.80	ug/kg
Q2436-10	TP-82	SOIL	alpha-Chlordane	2.50		0.13	1.80	ug/kg
Q2436-10	TP-82	SOIL	gamma-Chlordane	1.30	J	0.16	1.80	ug/kg
			Total Concentration:	**4.750**				

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	82.1 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089215.D	1	06/27/25 09:00	06/28/25 00:41	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.10	ug/kg
319-85-7	beta-BHC	0.22	U	0.22	2.10	ug/kg
319-86-8	delta-BHC	0.47	U	0.47	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.10	ug/kg
76-44-8	Heptachlor	0.15	U	0.15	2.10	ug/kg
309-00-2	Aldrin	0.15	U	0.15	2.10	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	2.10	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.10	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.10	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.10	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.10	ug/kg
33213-65-9	Endosulfan II	0.35	U	0.35	2.10	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.10	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.10	ug/kg
72-43-5	Methoxychlor	0.45	U	0.45	2.10	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.10	ug/kg
7421-93-4	Endrin aldehyde	0.45	U	0.45	2.10	ug/kg
5103-71-9	alpha-Chlordane	0.15	U	0.15	2.10	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.10	ug/kg
8001-35-2	Toxaphene	6.60	U	6.60	40.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.8		20 - 144	69%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.7		19 - 148	88%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	82.1 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089215.D	1	06/27/25 09:00	06/28/25 00:41	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	82 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
PD089216.D	1	06/27/25 09:00	06/28/25 00:55	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.10	ug/kg
319-85-7	beta-BHC	0.22	U	0.22	2.10	ug/kg
319-86-8	delta-BHC	0.47	U	0.47	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.10	ug/kg
76-44-8	Heptachlor	0.15	U	0.15	2.10	ug/kg
309-00-2	Aldrin	0.15	U	0.15	2.10	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	2.10	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.10	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.10	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.10	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.10	ug/kg
33213-65-9	Endosulfan II	0.35	U	0.35	2.10	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.10	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.10	ug/kg
72-43-5	Methoxychlor	0.45	U	0.45	2.10	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.10	ug/kg
7421-93-4	Endrin aldehyde	0.45	U	0.45	2.10	ug/kg
5103-71-9	alpha-Chlordane	0.15	U	0.15	2.10	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.10	ug/kg
8001-35-2	Toxaphene	6.60	U	6.60	40.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	12.5		20 - 144	63%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.6		19 - 148	83%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	82 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
PD089216.D	1	06/27/25 09:00	06/28/25 00:55	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.1 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089217.D	1	06/27/25 09:00	06/28/25 01:09	PB168637

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	0.46	U	0.46	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	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	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	0.18	U	0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.40	U	6.40	38.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	11.8		20 - 144	59%	SPK: 20
877-09-8	Tetrachloro-m-xylene	15.2		19 - 148	76%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.1 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089217.D	1	06/27/25 09:00	06/28/25 01:09	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.7 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
PD089218.D	1	06/27/25 09:00	06/28/25 01:22	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	1.90	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.90	ug/kg
319-86-8	delta-BHC	0.44	U	0.44	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	1.90	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	1.90	ug/kg
309-00-2	Aldrin	0.14	U	0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.90	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	1.90	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	1.90	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.42	U	0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.10	U	6.10	37.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.4		20 - 144	77%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		19 - 148	92%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.7 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
PD089218.D	1	06/27/25 09:00	06/28/25 01:22	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	92.3 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
PD089219.D	1	06/27/25 09:00	06/28/25 01:36	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.14	U	0.14	1.80	ug/kg
319-85-7	beta-BHC	0.19	U	0.19	1.80	ug/kg
319-86-8	delta-BHC	0.42	U	0.42	1.80	ug/kg
58-89-9	gamma-BHC (Lindane)	0.15	U	0.15	1.80	ug/kg
76-44-8	Heptachlor	0.13	U	0.13	1.80	ug/kg
309-00-2	Aldrin	0.13	U	0.13	1.80	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.80	ug/kg
959-98-8	Endosulfan I	0.15	U	0.15	1.80	ug/kg
60-57-1	Dieldrin	0.15	U	0.15	1.80	ug/kg
72-55-9	4,4-DDE	0.15	U	0.15	1.80	ug/kg
72-20-8	Endrin	0.15	U	0.15	1.80	ug/kg
33213-65-9	Endosulfan II	0.31	U	0.31	1.80	ug/kg
72-54-8	4,4-DDD	0.16	U	0.16	1.80	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.80	ug/kg
50-29-3	4,4-DDT	0.15	U	0.15	1.80	ug/kg
72-43-5	Methoxychlor	0.40	U	0.40	1.80	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.80	ug/kg
7421-93-4	Endrin aldehyde	0.40	U	0.40	1.80	ug/kg
5103-71-9	alpha-Chlordane	0.13	U	0.13	1.80	ug/kg
5103-74-2	gamma-Chlordane	0.16	U	0.16	1.80	ug/kg
8001-35-2	Toxaphene	5.90	U	5.90	35.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.0		20 - 144	75%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.6		19 - 148	93%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	92.3 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
PD089219.D	1	06/27/25 09:00	06/28/25 01:36	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089220.D	1	06/27/25 09:00	06/28/25 01:50	PB168637

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	0.26	J	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	14.7		20 - 144	74%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.8		19 - 148	89%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089220.D	1	06/27/25 09:00	06/28/25 01:50	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	89.9 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
PD089221.D	1	06/27/25 09:00	06/28/25 02:03	PB168637

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	0.19	J	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	36.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.1		20 - 144	70%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.3		19 - 148	86%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	89.9 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
PD089221.D	1	06/27/25 09:00	06/28/25 02:03	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.6 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089222.D	1	06/27/25 09:00	06/28/25 02:17	PB168637

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	1.40	J	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	1.10	J	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	0.34	U	0.34	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	22.9	P	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	12.9		0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.5	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.5		20 - 144	73%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.3		19 - 148	81%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.6 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089222.D	1	06/27/25 09:00	06/28/25 02:17	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	92.2 Decanted:
Sample Wt/Vol:	30.09 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
PD089223.D	1	06/27/25 09:00	06/28/25 02:31	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.14	U	0.14	1.80	ug/kg
319-85-7	beta-BHC	0.19	U	0.19	1.80	ug/kg
319-86-8	delta-BHC	0.42	U	0.42	1.80	ug/kg
58-89-9	gamma-BHC (Lindane)	0.15	U	0.15	1.80	ug/kg
76-44-8	Heptachlor	0.13	U	0.13	1.80	ug/kg
309-00-2	Aldrin	0.13	U	0.13	1.80	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.80	ug/kg
959-98-8	Endosulfan I	0.15	U	0.15	1.80	ug/kg
60-57-1	Dieldrin	0.15	U	0.15	1.80	ug/kg
72-55-9	4,4-DDE	0.15	U	0.15	1.80	ug/kg
72-20-8	Endrin	0.15	U	0.15	1.80	ug/kg
33213-65-9	Endosulfan II	0.31	U	0.31	1.80	ug/kg
72-54-8	4,4-DDD	0.16	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	0.22	J	0.15	1.80	ug/kg
72-43-5	Methoxychlor	0.40	U	0.40	1.80	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.80	ug/kg
7421-93-4	Endrin aldehyde	0.40	U	0.40	1.80	ug/kg
5103-71-9	alpha-Chlordane	0.13	U	0.13	1.80	ug/kg
5103-74-2	gamma-Chlordane	0.16	U	0.16	1.80	ug/kg
8001-35-2	Toxaphene	5.90	U	5.90	35.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.4		20 - 144	77%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.0		19 - 148	90%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	92.2 Decanted:
Sample Wt/Vol:	30.09 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
PD089223.D	1	06/27/25 09:00	06/28/25 02:31	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	92 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
PD089224.D	1	06/27/25 09:00	06/28/25 02:44	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.14	U	0.14	1.80	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.80	ug/kg
319-86-8	delta-BHC	0.42	U	0.42	1.80	ug/kg
58-89-9	gamma-BHC (Lindane)	0.15	U	0.15	1.80	ug/kg
76-44-8	Heptachlor	0.13	U	0.13	1.80	ug/kg
309-00-2	Aldrin	0.13	U	0.13	1.80	ug/kg
1024-57-3	Heptachlor epoxide	0.33	J	0.21	1.80	ug/kg
959-98-8	Endosulfan I	0.15	U	0.15	1.80	ug/kg
60-57-1	Dieldrin	0.62	J	0.15	1.80	ug/kg
72-55-9	4,4-DDE	0.15	U	0.15	1.80	ug/kg
72-20-8	Endrin	0.15	U	0.15	1.80	ug/kg
33213-65-9	Endosulfan II	0.31	U	0.31	1.80	ug/kg
72-54-8	4,4-DDD	0.16	U	0.16	1.80	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.80	ug/kg
50-29-3	4,4-DDT	0.15	U	0.15	1.80	ug/kg
72-43-5	Methoxychlor	0.40	U	0.40	1.80	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.80	ug/kg
7421-93-4	Endrin aldehyde	0.40	U	0.40	1.80	ug/kg
5103-71-9	alpha-Chlordane	2.50		0.13	1.80	ug/kg
5103-74-2	gamma-Chlordane	1.30	J	0.16	1.80	ug/kg
8001-35-2	Toxaphene	5.90	U	5.90	35.8	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.4		20 - 144	82%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.1		19 - 148	91%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	92 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
PD089224.D	1	06/27/25 09:00	06/28/25 02:44	PB168637

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

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

Surrogate Summary

SDG No.: Q2436

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PD088990.D	PIBLK-PD088990.D	Decachlorobiphen	1	20	18.2	91		57	171
		Tetrachloro-m-xyl	1	20	16.1	80		61	148
		Decachlorobiphen	2	20	18.6	93		57	171
		Tetrachloro-m-xyl	2	20	17.7	88		61	148
I.BLK-PD089201.D	PIBLK-PD089201.D	Decachlorobiphen	1	20	22.4	112		57	171
		Tetrachloro-m-xyl	1	20	22.9	114		61	148
		Decachlorobiphen	2	20	21.9	109		57	171
		Tetrachloro-m-xyl	2	20	24.5	122		61	148
PB168637BL	PB168637BL	Decachlorobiphen	1	20	16.4	82		20	144
		Tetrachloro-m-xyl	1	20	15.8	79		19	148
		Decachlorobiphen	2	20	17.1	86		20	144
		Tetrachloro-m-xyl	2	20	17.6	88		19	148
Q2430-01MS	MH-E/FMS	Decachlorobiphen	1	20	14.7	73		20	144
		Tetrachloro-m-xyl	1	20	14.7	73		19	148
		Decachlorobiphen	2	20	15.3	77		20	144
		Tetrachloro-m-xyl	2	20	16.6	83		19	148
Q2430-01MSD	MH-E/FMSD	Decachlorobiphen	1	20	14.8	74		20	144
		Tetrachloro-m-xyl	1	20	14.7	74		19	148
		Decachlorobiphen	2	20	15.4	77		20	144
		Tetrachloro-m-xyl	2	20	16.6	83		19	148
I.BLK-PD089212.D	PIBLK-PD089212.D	Decachlorobiphen	1	20	23.2	116		57	171
		Tetrachloro-m-xyl	1	20	23.2	116		61	148
		Decachlorobiphen	2	20	24.2	121		57	171
		Tetrachloro-m-xyl	2	20	25.1	126		61	148
Q2436-01	TP-70	Decachlorobiphen	1	20	13.2	66		20	144
		Tetrachloro-m-xyl	1	20	16.5	83		19	148
		Decachlorobiphen	2	20	13.8	69		20	144
		Tetrachloro-m-xyl	2	20	17.7	88		19	148
Q2436-02	TP-69	Decachlorobiphen	1	20	11.8	59		20	144
		Tetrachloro-m-xyl	1	20	15.4	77		19	148
		Decachlorobiphen	2	20	12.5	63		20	144
		Tetrachloro-m-xyl	2	20	16.6	83		19	148
Q2436-03	TP-85	Decachlorobiphen	1	20	11.1	56		20	144
		Tetrachloro-m-xyl	1	20	14.1	70		19	148
		Decachlorobiphen	2	20	11.8	59		20	144
		Tetrachloro-m-xyl	2	20	15.2	76		19	148
Q2436-04	TP-86	Decachlorobiphen	1	20	14.4	72		20	144
		Tetrachloro-m-xyl	1	20	17.6	88		19	148
		Decachlorobiphen	2	20	15.4	77		20	144
		Tetrachloro-m-xyl	2	20	18.4	92		19	148
Q2436-05	TP-84	Decachlorobiphen	1	20	14.2	71		20	144

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Surrogate Summary

SDG No.: Q2436

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
Q2436-05	TP-84	Tetrachloro-m-xyl	1	20	17.1	85		19	148
		Decachlorobiphen	2	20	15.0	75		20	144
		Tetrachloro-m-xyl	2	20	18.6	93		19	148
Q2436-06	TP-83	Decachlorobiphen	1	20	14.1	71		20	144
		Tetrachloro-m-xyl	1	20	16.5	83		19	148
		Decachlorobiphen	2	20	14.7	74		20	144
		Tetrachloro-m-xyl	2	20	17.8	89		19	148
Q2436-07	TP-87	Decachlorobiphen	1	20	13.3	67		20	144
		Tetrachloro-m-xyl	1	20	16.4	82		19	148
		Decachlorobiphen	2	20	14.1	70		20	144
		Tetrachloro-m-xyl	2	20	17.3	86		19	148
Q2436-08	TP-100	Decachlorobiphen	1	20	14.0	70		20	144
		Tetrachloro-m-xyl	1	20	16.3	81		19	148
		Decachlorobiphen	2	20	14.5	73		20	144
		Tetrachloro-m-xyl	2	20	0.19	1	*	19	148
Q2436-09	TP-99	Decachlorobiphen	1	20	14.8	74		20	144
		Tetrachloro-m-xyl	1	20	17.3	86		19	148
		Decachlorobiphen	2	20	15.4	77		20	144
		Tetrachloro-m-xyl	2	20	18.0	90		19	148
Q2436-10	TP-82	Decachlorobiphen	1	20	15.6	78		20	144
		Tetrachloro-m-xyl	1	20	16.9	85		19	148
		Decachlorobiphen	2	20	16.4	82		20	144
		Tetrachloro-m-xyl	2	20	18.1	91		19	148
I.BLK-PD089225.D	PIBLK-PD089225.D	Decachlorobiphen	1	20	23.9	119		57	171
		Tetrachloro-m-xyl	1	20	23.6	118		61	148
		Decachlorobiphen	2	20	24.6	123		57	171
		Tetrachloro-m-xyl	2	20	25.7	129		61	148
I.BLK-PD089228.D	PIBLK-PD089228.D	Decachlorobiphen	1	20	19.6	98		57	171
		Tetrachloro-m-xyl	1	20	19.0	95		61	148
		Decachlorobiphen	2	20	20.1	100		57	171
		Tetrachloro-m-xyl	2	20	21.1	105		61	148
PB168637BS	PB168637BS	Decachlorobiphen	1	20	19.0	95		20	144
		Tetrachloro-m-xyl	1	20	17.9	90		19	148
		Decachlorobiphen	2	20	19.1	96		20	144
		Tetrachloro-m-xyl	2	20	19.2	96		19	148
I.BLK-PD089240.D	PIBLK-PD089240.D	Decachlorobiphen	1	20	19.7	98		57	171
		Tetrachloro-m-xyl	1	20	19.0	95		61	148
		Decachlorobiphen	2	20	17.6	88		57	171
		Tetrachloro-m-xyl	2	20	20.8	104		61	148

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2436 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089210.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**MH-E/FMS**											
Q2430-01MS (Column 1)	alpha-BHC	18.89	0	16.3	ug/kg	86				60	144	
	beta-BHC	18.89	0	16.5	ug/kg	87				54	143	
	delta-BHC	18.89	0	17.2	ug/kg	91				29	151	
	gamma-BHC (Lindane)	18.89	0	16.4	ug/kg	87				61	140	
	Heptachlor	18.89	0	15.8	ug/kg	84				63	135	
	Aldrin	18.89	0	16.7	ug/kg	88				49	139	
	Heptachlor epoxide	18.89	0	16.2	ug/kg	86				41	156	
	Endosulfan I	18.89	0	16.4	ug/kg	87				56	142	
	Dieldrin	18.89	0	16.3	ug/kg	86				47	161	
	4,4'-DDE	18.89	0	16.4	ug/kg	87				55	136	
	Endrin	18.89	0	15.6	ug/kg	83				57	139	
	Endosulfan II	18.89	0	16.1	ug/kg	85				40	163	
	4,4'-DDD	18.89	0	16.6	ug/kg	88				47	163	
	Endosulfan sulfate	18.89	0	15.9	ug/kg	84				62	139	
	4,4'-DDT	18.89	0	14.4	ug/kg	76				51	146	
	Methoxychlor	18.89	0	13.4	ug/kg	71				54	136	
	Endrin ketone	18.89	0	16.1	ug/kg	85				60	129	
	Endrin aldehyde	18.89	0	15.9	ug/kg	84				59	132	
	alpha-Chlordane	18.89	0	16.3	ug/kg	86				39	166	
	gamma-Chlordane	18.89	0	16.6	ug/kg	88				44	175	
Client Sample ID:	**MH-E/FMS**											
Q2430-01MS (Column 2)	alpha-BHC	18.89	0	17.0	ug/kg	90				60	144	
	beta-BHC	18.89	0	16.7	ug/kg	88				54	143	
	delta-BHC	18.89	0	16.8	ug/kg	89				29	151	
	gamma-BHC (Lindane)	18.89	0	16.8	ug/kg	89				61	140	
	Heptachlor	18.89	0	16.1	ug/kg	85				63	135	
	Aldrin	18.89	0	16.8	ug/kg	89				49	139	
	Heptachlor epoxide	18.89	0	16.6	ug/kg	88				41	156	
	Endosulfan I	18.89	0	16.7	ug/kg	88				56	142	
	Dieldrin	18.89	0	16.5	ug/kg	87				47	161	
	4,4'-DDE	18.89	0	16.5	ug/kg	87				55	136	
	Endrin	18.89	0	16.0	ug/kg	85				57	139	
	Endosulfan II	18.89	0	16.4	ug/kg	87				40	163	
	4,4'-DDD	18.89	0	16.2	ug/kg	86				47	163	
	Endosulfan sulfate	18.89	0	16.0	ug/kg	85				62	139	
	4,4'-DDT	18.89	0	15.7	ug/kg	83				51	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2436 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089210.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Q2430-01MS (Column 2)	Methoxychlor	18.89	0	14.0	ug/kg	74				54	136	
	Endrin ketone	18.89	0	16.3	ug/kg	86				60	129	
	Endrin aldehyde	18.89	0	16.0	ug/kg	85				59	132	
	alpha-Chlordane	18.89	0	16.5	ug/kg	87				39	166	
	gamma-Chlordane	18.89	0	16.6	ug/kg	88				44	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2436 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089211.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**MH-E/FMSD**											
Q2430-01MSD (Column 1)	alpha-BHC	18.88	0	16.4	ug/kg	87		1		60	144	20
	beta-BHC	18.88	0	16.6	ug/kg	88		1		54	143	20
	delta-BHC	18.88	0	17.3	ug/kg	92		1		29	151	20
	gamma-BHC (Lindane)	18.88	0	16.5	ug/kg	87		0		61	140	20
	Heptachlor	18.88	0	15.9	ug/kg	84		0		63	135	20
	Aldrin	18.88	0	16.8	ug/kg	89		1		49	139	20
	Heptachlor epoxide	18.88	0	16.3	ug/kg	86		0		41	156	20
	Endosulfan I	18.88	0	16.4	ug/kg	87		0		56	142	20
	Dieldrin	18.88	0	16.4	ug/kg	87		1		47	161	20
	4,4'-DDE	18.88	0	16.4	ug/kg	87		0		55	136	20
	Endrin	18.88	0	15.7	ug/kg	83		0		57	139	20
	Endosulfan II	18.88	0	15.9	ug/kg	84		1		40	163	20
	4,4'-DDD	18.88	0	16.7	ug/kg	88		0		47	163	20
	Endosulfan sulfate	18.88	0	15.9	ug/kg	84		0		62	139	20
	4,4'-DDT	18.88	0	14.4	ug/kg	76		0		51	146	20
	Methoxychlor	18.88	0	13.5	ug/kg	72		1		54	136	20
	Endrin ketone	18.88	0	16.0	ug/kg	85		0		60	129	20
	Endrin aldehyde	18.88	0	15.9	ug/kg	84		0		59	132	20
	alpha-Chlordane	18.88	0	16.3	ug/kg	86		0		39	166	20
	gamma-Chlordane	18.88	0	16.6	ug/kg	88		0		44	175	20
Client Sample ID:	**MH-E/FMSD**											
Q2430-01MSD (Column 2)	alpha-BHC	18.88	0	17.0	ug/kg	90		0		60	144	20
	beta-BHC	18.88	0	16.7	ug/kg	88		0		54	143	20
	delta-BHC	18.88	0	16.8	ug/kg	89		0		29	151	20
	gamma-BHC (Lindane)	18.88	0	16.8	ug/kg	89		0		61	140	20
	Heptachlor	18.88	0	16.1	ug/kg	85		0		63	135	20
	Aldrin	18.88	0	16.8	ug/kg	89		0		49	139	20
	Heptachlor epoxide	18.88	0	16.7	ug/kg	88		0		41	156	20
	Endosulfan I	18.88	0	16.8	ug/kg	89		1		56	142	20
	Dieldrin	18.88	0	16.6	ug/kg	88		1		47	161	20
	4,4'-DDE	18.88	0	16.6	ug/kg	88		1		55	136	20
	Endrin	18.88	0	16.3	ug/kg	86		1		57	139	20
	Endosulfan II	18.88	0	16.6	ug/kg	88		1		40	163	20
	4,4'-DDD	18.88	0	16.3	ug/kg	86		0		47	163	20
	Endosulfan sulfate	18.88	0	16.1	ug/kg	85		0		62	139	20
	4,4'-DDT	18.88	0	15.8	ug/kg	84		1		51	146	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2436 **Analytical Method:** 8081B

Client: CDM Smith **DataFile :** PD089211.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Q2430-01MSD (Column 2)	Methoxychlor	18.88	0	14.2	ug/kg	75		1		54	136	20
	Endrin ketone	18.88	0	16.4	ug/kg	87		1		60	129	20
	Endrin aldehyde	18.88	0	16.1	ug/kg	85		0		59	132	20
	alpha-Chlordane	18.88	0	16.6	ug/kg	88		1		39	166	20
	gamma-Chlordane	18.88	0	16.7	ug/kg	88		0		44	175	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436 **Analytical Method:** 8081B

Client: CDM Smith **Datafile :** PD089233.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168637BS (Column 1)	alpha-BHC	16.65	16.9	ug/kg	102				84	123	
	beta-BHC	16.65	16.2	ug/kg	97				82	123	
	delta-BHC	16.65	17.5	ug/kg	105				83	126	
	gamma-BHC (Lindane)	16.65	16.9	ug/kg	102				83	125	
	Heptachlor	16.65	16.0	ug/kg	96				83	122	
	Aldrin	16.65	17.1	ug/kg	103				82	124	
	Heptachlor epoxide	16.65	16.5	ug/kg	99				83	120	
	Endosulfan I	16.65	16.5	ug/kg	99				81	124	
	Dieldrin	16.65	16.7	ug/kg	100				85	121	
	4,4'-DDE	16.65	16.4	ug/kg	98				81	123	
	Endrin	16.65	14.7	ug/kg	88				76	130	
	Endosulfan II	16.65	16.4	ug/kg	98				80	125	
	4,4'-DDD	16.65	17.7	ug/kg	106				80	131	
	Endosulfan sulfate	16.65	16.0	ug/kg	96				81	122	
	4,4'-DDT	16.65	12.8	ug/kg	77				70	129	
	Methoxychlor	16.65	12.0	ug/kg	72				60	119	
	Endrin ketone	16.65	16.4	ug/kg	98				77	132	
	Endrin aldehyde	16.65	15.8	ug/kg	95				79	124	
	alpha-Chlordane	16.65	16.4	ug/kg	98				84	120	
	gamma-Chlordane	16.65	16.9	ug/kg	102				83	122	
PB168637BS (Column 2)	alpha-BHC	16.65	16.4	ug/kg	98				84	123	
	beta-BHC	16.65	16.0	ug/kg	96				82	123	
	delta-BHC	16.65	16.3	ug/kg	98				83	126	
	gamma-BHC (Lindane)	16.65	16.3	ug/kg	98				83	125	
	Heptachlor	16.65	15.2	ug/kg	91				83	122	
	Aldrin	16.65	16.4	ug/kg	98				82	124	
	Heptachlor epoxide	16.65	16.3	ug/kg	98				83	120	
	Endosulfan I	16.65	16.4	ug/kg	98				81	124	
	Dieldrin	16.65	16.1	ug/kg	97				85	121	
	4,4'-DDE	16.65	16.1	ug/kg	97				81	123	
	Endrin	16.65	14.4	ug/kg	86				76	130	
	Endosulfan II	16.65	16.0	ug/kg	96				80	125	
	4,4'-DDD	16.65	17.2	ug/kg	103				80	131	
	Endosulfan sulfate	16.65	15.8	ug/kg	95				81	122	
	4,4'-DDT	16.65	12.8	ug/kg	77				70	129	
	Methoxychlor	16.65	12.1	ug/kg	73				60	119	
	Endrin ketone	16.65	16.4	ug/kg	98				77	132	
	Endrin aldehyde	16.65	15.7	ug/kg	94				79	124	
	alpha-Chlordane	16.65	16.1	ug/kg	97				84	120	
	gamma-Chlordane	16.65	16.2	ug/kg	97				83	122	

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168637BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2436

Lab Sample ID: PB168637BL | Lab File ID: PD089206.D

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

Sulfur Cleanup: (Y/N) N | Date Extracted: 06/27/2025

Date Analyzed (1): 06/27/2025 | Date Analyzed (2): 06/27/2025

Time Analyzed (1): 22:25 | Time Analyzed (2): 22:25

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
MH-E/FMS	Q2430-01MS	PD089210.D	06/27/2025	06/27/2025
MH-E/FMSD	Q2430-01MSD	PD089211.D	06/27/2025	06/27/2025
TP-70	Q2436-01	PD089215.D	06/28/2025	06/28/2025
TP-69	Q2436-02	PD089216.D	06/28/2025	06/28/2025
TP-85	Q2436-03	PD089217.D	06/28/2025	06/28/2025
TP-86	Q2436-04	PD089218.D	06/28/2025	06/28/2025
TP-84	Q2436-05	PD089219.D	06/28/2025	06/28/2025
TP-83	Q2436-06	PD089220.D	06/28/2025	06/28/2025
TP-87	Q2436-07	PD089221.D	06/28/2025	06/28/2025
TP-100	Q2436-08	PD089222.D	06/28/2025	06/28/2025
TP-99	Q2436-09	PD089223.D	06/28/2025	06/28/2025
TP-82	Q2436-10	PD089224.D	06/28/2025	06/28/2025
PB168637BS	PB168637BS	PD089233.D	06/30/2025	06/30/2025

COMMENTS:

QC SAMPLE DATA

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168637BL	SDG No.:	Q2436
Lab Sample ID:	PB168637BL	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
PD089206.D	1	06/27/25 09:00	06/27/25 22:25	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.13	U	0.13	1.70	ug/kg
319-85-7	beta-BHC	0.18	U	0.18	1.70	ug/kg
319-86-8	delta-BHC	0.39	U	0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	0.14	U	0.14	1.70	ug/kg
76-44-8	Heptachlor	0.12	U	0.12	1.70	ug/kg
309-00-2	Aldrin	0.12	U	0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	0.19	U	0.19	1.70	ug/kg
959-98-8	Endosulfan I	0.14	U	0.14	1.70	ug/kg
60-57-1	Dieldrin	0.14	U	0.14	1.70	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.70	ug/kg
72-20-8	Endrin	0.14	U	0.14	1.70	ug/kg
33213-65-9	Endosulfan II	0.29	U	0.29	1.70	ug/kg
72-54-8	4,4-DDD	0.15	U	0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	0.13	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	0.14	U	0.14	1.70	ug/kg
72-43-5	Methoxychlor	0.37	U	0.37	1.70	ug/kg
53494-70-5	Endrin ketone	0.19	U	0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	0.37	U	0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	0.12	U	0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	0.15	U	0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.1		20 - 144	86%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.6		19 - 148	88%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168637BL	SDG No.:	Q2436
Lab Sample ID:	PB168637BL	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
PD089206.D	1	06/27/25 09:00	06/27/25 22:25	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/17/25
Project:	South River WM Replacement	Date Received:	06/17/25
Client Sample ID:	PIBLK-PD088990.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PD088990.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088990.D	1		06/17/25	PD061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.6		57 - 171	93%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.7		61 - 148	88%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/17/25
Project:	South River WM Replacement	Date Received:	06/17/25
Client Sample ID:	PIBLK-PD088990.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PD088990.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088990.D	1		06/17/25	PD061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	PIBLK-PD089201.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PD089201.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
PD089201.D	1		06/27/25	pd062825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.4		57 - 171	112%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.5		61 - 148	122%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	PIBLK-PD089201.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PD089201.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
PD089201.D	1		06/27/25	pd062825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	PIBLK-PD089212.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PD089212.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
PD089212.D	1		06/27/25	pd062825

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	24.2		57 - 171	121%	SPK: 20
877-09-8	Tetrachloro-m-xylene	25.1		61 - 148	126%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	PIBLK-PD089212.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PD089212.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
PD089212.D	1		06/27/25	pd062825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/28/25
Project:	South River WM Replacement	Date Received:	06/28/25
Client Sample ID:	PIBLK-PD089225.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PD089225.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
PD089225.D	1		06/28/25	pd062825

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	24.6		57 - 171	123%	SPK: 20
877-09-8	Tetrachloro-m-xylene	25.7		61 - 148	129%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/28/25
Project:	South River WM Replacement	Date Received:	06/28/25
Client Sample ID:	PIBLK-PD089225.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PD089225.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
PD089225.D	1		06/28/25	pd062825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/30/25
Project:	South River WM Replacement	Date Received:	06/30/25
Client Sample ID:	PIBLK-PD089228.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PD089228.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
PD089228.D	1		06/30/25	PD063025

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	20.1		57 - 171	100%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.1		61 - 148	105%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/30/25
Project:	South River WM Replacement	Date Received:	06/30/25
Client Sample ID:	PIBLK-PD089228.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PD089228.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
PD089228.D	1		06/30/25	PD063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/30/25
Project:	South River WM Replacement	Date Received:	06/30/25
Client Sample ID:	PIBLK-PD089240.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PD089240.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
PD089240.D	1		06/30/25	pd063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.7		57 - 171	98%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.8		61 - 148	104%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/30/25
Project:	South River WM Replacement	Date Received:	06/30/25
Client Sample ID:	PIBLK-PD089240.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PD089240.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
PD089240.D	1		06/30/25	pd063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168637BS	SDG No.:	Q2436
Lab Sample ID:	PB168637BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089233.D	1	06/27/25 09:00	06/30/25 14:17	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	16.9		0.13	1.70	ug/kg
319-85-7	beta-BHC	16.2		0.18	1.70	ug/kg
319-86-8	delta-BHC	17.5		0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	16.9		0.14	1.70	ug/kg
76-44-8	Heptachlor	16.0		0.12	1.70	ug/kg
309-00-2	Aldrin	17.1		0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	16.5		0.19	1.70	ug/kg
959-98-8	Endosulfan I	16.5		0.14	1.70	ug/kg
60-57-1	Dieldrin	16.7		0.14	1.70	ug/kg
72-55-9	4,4-DDE	16.4		0.14	1.70	ug/kg
72-20-8	Endrin	14.7		0.14	1.70	ug/kg
33213-65-9	Endosulfan II	16.4		0.29	1.70	ug/kg
72-54-8	4,4-DDD	17.7		0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	16.0		0.13	1.70	ug/kg
50-29-3	4,4-DDT	12.8		0.14	1.70	ug/kg
72-43-5	Methoxychlor	12.1		0.37	1.70	ug/kg
53494-70-5	Endrin ketone	16.4		0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	15.8		0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	16.4		0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	16.9		0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.1		20 - 144	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.2		19 - 148	96%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168637BS	SDG No.:	Q2436
Lab Sample ID:	PB168637BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089233.D	1	06/27/25 09:00	06/30/25 14:17	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	MH-E/FMS	SDG No.:	Q2436
Lab Sample ID:	Q2430-01MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.2 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089210.D	1	06/27/25 09:00	06/27/25 23:19	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	17.0		0.15	1.90	ug/kg
319-85-7	beta-BHC	16.7		0.20	1.90	ug/kg
319-86-8	delta-BHC	17.2		0.44	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	16.8		0.16	1.90	ug/kg
76-44-8	Heptachlor	16.1		0.14	1.90	ug/kg
309-00-2	Aldrin	16.8		0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	16.6		0.22	1.90	ug/kg
959-98-8	Endosulfan I	16.7		0.16	1.90	ug/kg
60-57-1	Dieldrin	16.5		0.16	1.90	ug/kg
72-55-9	4,4-DDE	16.5		0.16	1.90	ug/kg
72-20-8	Endrin	16.0		0.16	1.90	ug/kg
33213-65-9	Endosulfan II	16.4		0.33	1.90	ug/kg
72-54-8	4,4-DDD	16.6		0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	16.0		0.15	1.90	ug/kg
50-29-3	4,4-DDT	15.7		0.16	1.90	ug/kg
72-43-5	Methoxychlor	14.0		0.42	1.90	ug/kg
53494-70-5	Endrin ketone	16.3		0.22	1.90	ug/kg
7421-93-4	Endrin aldehyde	16.0		0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	16.5		0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	16.6		0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.10	U	6.10	37.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.3		20 - 144	77%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.6		19 - 148	83%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	MH-E/FMS	SDG No.:	Q2436
Lab Sample ID:	Q2430-01MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.2 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089210.D	1	06/27/25 09:00	06/27/25 23:19	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	MH-E/FMSD	SDG No.:	Q2436
Lab Sample ID:	Q2430-01MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.2 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089211.D	1	06/27/25 09:00	06/27/25 23:33	PB168637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	17.0		0.15	1.90	ug/kg
319-85-7	beta-BHC	16.7		0.20	1.90	ug/kg
319-86-8	delta-BHC	17.3		0.44	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	16.8		0.16	1.90	ug/kg
76-44-8	Heptachlor	16.1		0.14	1.90	ug/kg
309-00-2	Aldrin	16.8		0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	16.7		0.22	1.90	ug/kg
959-98-8	Endosulfan I	16.8		0.16	1.90	ug/kg
60-57-1	Dieldrin	16.6		0.16	1.90	ug/kg
72-55-9	4,4-DDE	16.6		0.16	1.90	ug/kg
72-20-8	Endrin	16.3		0.16	1.90	ug/kg
33213-65-9	Endosulfan II	16.6		0.33	1.90	ug/kg
72-54-8	4,4-DDD	16.7		0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	16.1		0.15	1.90	ug/kg
50-29-3	4,4-DDT	15.8		0.16	1.90	ug/kg
72-43-5	Methoxychlor	14.2		0.42	1.90	ug/kg
53494-70-5	Endrin ketone	16.4		0.22	1.90	ug/kg
7421-93-4	Endrin aldehyde	16.1		0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	16.6		0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	16.7		0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.10	U	6.10	37.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.4		20 - 144	77%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.6		19 - 148	83%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	MH-E/FMSD	SDG No.:	Q2436
Lab Sample ID:	Q2430-01MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.2 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089211.D	1	06/27/25 09:00	06/27/25 23:33	PB168637

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
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() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Instrument ID: ECD_D **Calibration Date(s):** 06/17/2025 06/17/2025

Calibration Times: 15:52 16:47

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

LAB FILE ID: RT 100 = PD088993.D RT 075 = PD088994.D

RT 050 = PD088995.D RT 025 = PD088996.D RT 005 = PD088997.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.70	6.71	6.70	6.70	6.70	6.60	6.80
4,4'-DDE	6.20	6.20	6.20	6.20	6.19	6.20	6.10	6.30
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.27	5.27	5.27	5.27	5.27	5.27	5.17	5.37
alpha-BHC	4.00	4.00	4.00	4.00	4.00	4.00	3.90	4.10
alpha-Chlordane	6.03	6.03	6.03	6.03	6.03	6.03	5.93	6.13
beta-BHC	4.52	4.52	4.52	4.52	4.52	4.51	4.41	4.61
Decachlorobiphenyl	9.07	9.07	9.07	9.07	9.07	9.07	8.97	9.17
delta-BHC	4.76	4.76	4.76	4.76	4.76	4.76	4.66	4.86
Dieldrin	6.35	6.35	6.35	6.35	6.35	6.35	6.25	6.45
Endosulfan I	6.07	6.07	6.08	6.07	6.07	6.07	5.97	6.17
Endosulfan II	6.79	6.79	6.79	6.79	6.79	6.79	6.69	6.89
Endosulfan sulfate	7.15	7.15	7.15	7.15	7.15	7.15	7.05	7.25
Endrin	6.57	6.57	6.58	6.57	6.57	6.57	6.47	6.67
Endrin aldehyde	6.92	6.91	6.92	6.91	6.91	6.91	6.81	7.01
Endrin ketone	7.63	7.63	7.63	7.63	7.63	7.63	7.53	7.73
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
gamma-Chlordane	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
Heptachlor	4.93	4.93	4.93	4.93	4.93	4.93	4.83	5.03
Heptachlor epoxide	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Methoxychlor	7.49	7.49	7.49	7.49	7.49	7.49	7.39	7.59
Tetrachloro-m-xylene	3.55	3.55	3.55	3.55	3.55	3.55	3.45	3.65

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Instrument ID: ECD_D **Calibration Date(s):** 06/17/2025 06/17/2025

Calibration Times: 15:52 16:47

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

LAB FILE ID: RT 100 = PD088993.D RT 075 = PD088994.D

RT 050 = PD088995.D RT 025 = PD088996.D RT 005 = PD088997.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.93	5.93	5.93	5.93	5.93	5.93	5.83	6.03
4,4'-DDE	5.38	5.38	5.38	5.38	5.38	5.38	5.28	5.48
4,4'-DDT	6.18	6.18	6.18	6.18	6.18	6.18	6.08	6.28
Aldrin	4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
alpha-BHC	3.39	3.39	3.39	3.39	3.39	3.39	3.29	3.49
alpha-Chlordane	5.19	5.19	5.19	5.19	5.19	5.19	5.09	5.29
beta-BHC	4.03	4.03	4.03	4.03	4.03	4.03	3.93	4.13
Decachlorobiphenyl	8.07	8.07	8.07	8.07	8.07	8.07	7.97	8.17
delta-BHC	4.26	4.26	4.26	4.26	4.26	4.26	4.16	4.36
Dieldrin	5.51	5.51	5.51	5.51	5.51	5.51	5.41	5.61
Endosulfan I	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
Endosulfan II	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
Endosulfan sulfate	6.48	6.48	6.48	6.48	6.48	6.48	6.38	6.58
Endrin	5.79	5.79	5.79	5.79	5.79	5.79	5.69	5.89
Endrin aldehyde	6.26	6.26	6.26	6.26	6.26	6.26	6.16	6.36
Endrin ketone	6.99	6.99	6.99	6.99	6.99	6.99	6.89	7.09
gamma-BHC (Lindane)	3.73	3.73	3.73	3.73	3.73	3.73	3.63	3.83
gamma-Chlordane	5.13	5.13	5.13	5.13	5.13	5.13	5.03	5.23
Heptachlor	4.08	4.08	4.08	4.08	4.08	4.08	3.98	4.18
Heptachlor epoxide	4.87	4.87	4.87	4.87	4.87	4.87	4.77	4.97
Methoxychlor	6.76	6.75	6.76	6.75	6.75	6.75	6.65	6.85
Tetrachloro-m-xylene	2.88	2.88	2.88	2.88	2.88	2.88	2.78	2.98

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Instrument ID: ECD_D **Calibration Date(s):** 06/17/2025 06/17/2025

Calibration Times: 15:52 16:47

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

LAB FILE ID: **CF 100 =** PD088993.D **CF 075 =** PD088994.D

CF 050 = PD088995.D **CF 025 =** PD088996.D **CF 005 =** PD088997.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	3557450000	3439230000	3414120000	3228670000	3520780000	3432050000	4
4,4'-DDE	4564130000	4401240000	4312380000	4092310000	4435110000	4361030000	4
4,4'-DDT	3928430000	3802000000	3763430000	3580670000	3866490000	3788210000	3
Aldrin	5504150000	5312640000	5254800000	4989300000	5504000000	5312980000	4
alpha-BHC	6295370000	6031790000	5874750000	5417910000	5525530000	5829070000	6
alpha-Chlordane	4885060000	4758900000	4734630000	4584390000	5229700000	4838540000	5
beta-BHC	2136750000	2100860000	2137680000	2144670000	2515730000	2207140000	8
Decachlorobiphenyl	3598890000	3628150000	3773200000	3897960000	4739940000	3927630000	12
delta-BHC	5546280000	5292010000	5182350000	4751190000	4892690000	5132900000	6
Dieldrin	4933650000	4797080000	4750270000	4527510000	4978810000	4797470000	4
Endosulfan I	4511200000	4405770000	4412600000	4289200000	4918470000	4507450000	5
Endosulfan II	3829260000	3982180000	4002080000	3816490000	4553000000	4036600000	7
Endosulfan sulfate	3786900000	3718160000	3741600000	3667440000	4271990000	3837220000	6
Endrin	4238140000	4109540000	4096430000	3878120000	4305700000	4125590000	4
Endrin aldehyde	2964260000	2935670000	2964230000	2966830000	3488720000	3063940000	8
Endrin ketone	4050100000	3970810000	4004900000	3895960000	4443590000	4073070000	5
gamma-BHC (Lindane)	5900830000	5686510000	5566590000	5221690000	5532800000	5581680000	4
gamma-Chlordane	4869330000	4801300000	4716110000	4508810000	5045020000	4788110000	4
Heptachlor	5621840000	5429540000	5358570000	5116310000	5733550000	5451960000	4
Heptachlor epoxide	4794850000	4673610000	4749650000	4554690000	5346870000	4823940000	6
Methoxychlor	1926110000	1918890000	1971480000	1982080000	2304580000	2020630000	8
Tetrachloro-m-xylene	2812300000	2762040000	2767280000	2751820000	3172230000	2853130000	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Instrument ID: ECD_D

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

Calibration Times: 15:52 16:47

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

LAB FILE ID: **CF 100 =** PD088993.D **CF 075 =** PD088994.D

CF 050 = PD088995.D **CF 025 =** PD088996.D **CF 005 =** PD088997.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	17754100000	17899700000	18191100000	18805800000	22996200000	19129400000	11
4,4'-DDE	21343500000	21440200000	21823600000	22564100000	27409000000	22916100000	11
4,4'-DDT	19391000000	19327800000	19594100000	20005200000	23078500000	20279300000	8
Aldrin	22719200000	22747700000	23159400000	23852800000	28607200000	24217300000	10
alpha-BHC	25649000000	25438700000	25849200000	26153100000	30895500000	26797100000	9
alpha-Chlordane	21191300000	21145300000	21570900000	22517200000	28059300000	22896800000	13
beta-BHC	9903630000	9918550000	10198200000	10624100000	13086800000	10746200000	12
Decachlorobiphenyl	17946500000	17939700000	18428600000	19427500000	25107500000	19770000000	15
delta-BHC	23614400000	23533700000	23918700000	24298300000	29003000000	24873600000	9
Dieldrin	21438700000	21622000000	22120600000	22941800000	27919200000	23208500000	12
Endosulfan I	19170300000	19201000000	19315500000	20752900000	25772600000	20842500000	14
Endosulfan II	18473200000	18573800000	19087100000	20002300000	24846800000	20196600000	13
Endosulfan sulfate	17925600000	18043500000	18492500000	19409200000	24234500000	19621100000	13
Endrin	20535400000	19906600000	20644700000	21276500000	26206500000	21713900000	12
Endrin aldehyde	13773600000	13920200000	14379400000	15195500000	19287900000	15311300000	15
Endrin ketone	19587400000	19824900000	20446500000	21535300000	26614600000	21601700000	13
gamma-BHC (Lindane)	23622800000	23442000000	23749900000	24221500000	28748400000	24756900000	9
gamma-Chlordane	22229100000	22022500000	22519500000	23493700000	29348800000	23922700000	13
Heptachlor	23291600000	23365200000	23922200000	24716000000	29896800000	25038400000	11
Heptachlor epoxide	20080600000	20251900000	20827300000	21695300000	26635200000	21898100000	12
Methoxychlor	9712450000	9897880000	10259100000	10830900000	13140100000	10768100000	13
Tetrachloro-m-xylene	15879800000	15866400000	15978000000	16730900000	20310700000	16953200000	11

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Instrument ID: ECD_D **Date(s) Analyzed:** 06/17/2025 06/17/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	6.24	6.14	6.34	33601800
		2	6.44	6.34	6.54	47528600
		3	7.15	7.05	7.25	87292700
		4	7.56	7.46	7.66	111357000
		5	7.93	7.83	8.03	63112600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Instrument ID: ECD_D **Date(s) Analyzed:** 06/17/2025 06/17/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.47	5.37	5.57	158160000
		2	5.65	5.55	5.75	108820000
		3	6.76	6.66	6.86	511856000
		4	7.20	7.10	7.30	350145000
		5	7.33	7.23	7.43	253920000

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/27/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 21:16 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.01
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	6.19	6.20	6.10	6.30	0.01
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

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/27/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 21:16 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.02	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

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL01 **Date Analyzed:** 06/27/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089202.D **Time Analyzed:** 21:16

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.704	6.605	6.805	57.920	50.000	15.8
4,4'-DDE	6.194	6.096	6.296	54.700	50.000	9.4
4,4'-DDT	7.019	6.921	7.121	42.000	50.000	-16.0
Aldrin	5.270	5.171	5.371	56.890	50.000	13.8
alpha-BHC	3.999	3.899	4.099	58.040	50.000	16.1
alpha-Chlordane	6.026	5.927	6.127	56.470	50.000	12.9
beta-BHC	4.515	4.415	4.615	54.780	50.000	9.6
Decachlorobiphenyl	9.070	8.972	9.172	50.550	50.000	1.1
delta-BHC	4.763	4.664	4.864	59.190	50.000	18.4
Dieldrin	6.345	6.247	6.447	55.790	50.000	11.6
Endosulfan I	6.073	5.975	6.175	55.380	50.000	10.8
Endosulfan II	6.785	6.686	6.886	54.540	50.000	9.1
Endosulfan sulfate	7.148	7.049	7.249	52.730	50.000	5.5
Endrin	6.573	6.475	6.675	50.190	50.000	0.4
Endrin aldehyde	6.913	6.815	7.015	50.620	50.000	1.2
Endrin ketone	7.628	7.530	7.730	52.990	50.000	6.0
gamma-BHC (Lindane)	4.330	4.230	4.430	56.990	50.000	14.0
gamma-Chlordane	5.945	5.846	6.046	57.950	50.000	15.9
Heptachlor	4.929	4.829	5.029	51.400	50.000	2.8
Heptachlor epoxide	5.689	5.591	5.791	54.280	50.000	8.6
Methoxychlor	7.491	7.393	7.593	42.560	50.000	-14.9
Tetrachloro-m-xylene	3.550	3.450	3.650	57.800	50.000	15.6

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL01 **Date Analyzed:** 06/27/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089202.D **Time Analyzed:** 21:16

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.928	5.830	6.030	54.200	50.000	8.4
4,4'-DDE	5.373	5.275	5.475	53.740	50.000	7.5
4,4'-DDT	6.181	6.084	6.284	41.310	50.000	-17.4
Aldrin	4.367	4.269	4.469	55.520	50.000	11.0
alpha-BHC	3.392	3.293	3.493	56.420	50.000	12.8
alpha-Chlordane	5.189	5.091	5.291	54.340	50.000	8.7
beta-BHC	4.024	3.926	4.126	54.120	50.000	8.2
Decachlorobiphenyl	8.070	7.972	8.172	50.420	50.000	0.8
delta-BHC	4.261	4.162	4.362	54.930	50.000	9.9
Dieldrin	5.511	5.413	5.613	53.700	50.000	7.4
Endosulfan I	5.245	5.147	5.347	54.090	50.000	8.2
Endosulfan II	6.079	5.981	6.181	53.260	50.000	6.5
Endosulfan sulfate	6.480	6.383	6.583	51.330	50.000	2.7
Endrin	5.787	5.689	5.889	50.370	50.000	0.7
Endrin aldehyde	6.256	6.159	6.359	49.550	50.000	-0.9
Endrin ketone	6.989	6.892	7.092	51.450	50.000	2.9
gamma-BHC (Lindane)	3.729	3.630	3.830	55.740	50.000	11.5
gamma-Chlordane	5.124	5.026	5.226	55.510	50.000	11.0
Heptachlor	4.082	3.983	4.183	50.310	50.000	0.6
Heptachlor epoxide	4.871	4.773	4.973	55.210	50.000	10.4
Methoxychlor	6.752	6.655	6.855	44.610	50.000	-10.8
Tetrachloro-m-xylene	2.881	2.780	2.980	58.420	50.000	16.8

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/28/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 00:14 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.01
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	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.57	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.01
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

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/28/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 00:14 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.37	5.38	5.28	5.48	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL02 **Date Analyzed:** 06/28/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089214.D **Time Analyzed:** 00:14

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.704	6.605	6.805	57.920	50.000	15.8
4,4'-DDE	6.195	6.096	6.296	55.080	50.000	10.2
4,4'-DDT	7.019	6.921	7.121	45.370	50.000	-9.3
Aldrin	5.270	5.171	5.371	57.530	50.000	15.1
alpha-BHC	3.999	3.899	4.099	58.300	50.000	16.6
alpha-Chlordane	6.026	5.927	6.127	56.920	50.000	13.8
beta-BHC	4.515	4.415	4.615	54.940	50.000	9.9
Decachlorobiphenyl	9.070	8.972	9.172	51.410	50.000	2.8
delta-BHC	4.764	4.664	4.864	59.760	50.000	19.5
Dieldrin	6.346	6.247	6.447	55.900	50.000	11.8
Endosulfan I	6.073	5.975	6.175	55.830	50.000	11.7
Endosulfan II	6.785	6.686	6.886	55.060	50.000	10.1
Endosulfan sulfate	7.148	7.049	7.249	53.430	50.000	6.9
Endrin	6.573	6.475	6.675	51.730	50.000	3.5
Endrin aldehyde	6.913	6.815	7.015	53.120	50.000	6.2
Endrin ketone	7.628	7.530	7.730	54.640	50.000	9.3
gamma-BHC (Lindane)	4.330	4.230	4.430	57.210	50.000	14.4
gamma-Chlordane	5.945	5.846	6.046	58.500	50.000	17.0
Heptachlor	4.929	4.829	5.029	53.650	50.000	7.3
Heptachlor epoxide	5.690	5.591	5.791	55.310	50.000	10.6
Methoxychlor	7.491	7.393	7.593	48.170	50.000	-3.7
Tetrachloro-m-xylene	3.550	3.450	3.650	57.830	50.000	15.7

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL02 **Date Analyzed:** 06/28/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089214.D **Time Analyzed:** 00:14

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.929	5.830	6.030	54.820	50.000	9.6
4,4'-DDE	5.374	5.275	5.475	55.020	50.000	10.0
4,4'-DDT	6.182	6.084	6.284	45.730	50.000	-8.5
Aldrin	4.368	4.269	4.469	56.320	50.000	12.6
alpha-BHC	3.393	3.293	3.493	56.820	50.000	13.6
alpha-Chlordane	5.190	5.091	5.291	55.330	50.000	10.7
beta-BHC	4.025	3.926	4.126	54.570	50.000	9.1
Decachlorobiphenyl	8.071	7.972	8.172	53.550	50.000	7.1
delta-BHC	4.261	4.162	4.362	55.720	50.000	11.4
Dieldrin	5.512	5.413	5.613	55.070	50.000	10.1
Endosulfan I	5.246	5.147	5.347	55.100	50.000	10.2
Endosulfan II	6.078	5.981	6.181	54.780	50.000	9.6
Endosulfan sulfate	6.481	6.383	6.583	53.190	50.000	6.4
Endrin	5.788	5.689	5.889	52.970	50.000	5.9
Endrin aldehyde	6.258	6.159	6.359	52.380	50.000	4.8
Endrin ketone	6.990	6.892	7.092	54.180	50.000	8.4
gamma-BHC (Lindane)	3.729	3.630	3.830	56.410	50.000	12.8
gamma-Chlordane	5.125	5.026	5.226	56.400	50.000	12.8
Heptachlor	4.082	3.983	4.183	52.730	50.000	5.5
Heptachlor epoxide	4.872	4.773	4.973	56.350	50.000	12.7
Methoxychlor	6.753	6.655	6.855	50.280	50.000	0.6
Tetrachloro-m-xylene	2.881	2.780	2.980	58.840	50.000	17.7

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/28/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 03:12 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.01
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	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.57	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.01
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

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/28/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 03:12 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.02	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

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL03 **Date Analyzed:** 06/28/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089226.D **Time Analyzed:** 03:12

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.704	6.605	6.805	58.230	50.000	16.5
4,4'-DDE	6.195	6.096	6.296	55.570	50.000	11.1
4,4'-DDT	7.020	6.921	7.121	47.730	50.000	-4.5
Aldrin	5.271	5.171	5.371	58.470	50.000	16.9
alpha-BHC	3.999	3.899	4.099	59.140	50.000	18.3
alpha-Chlordane	6.026	5.927	6.127	57.740	50.000	15.5
beta-BHC	4.515	4.415	4.615	55.540	50.000	11.1
Decachlorobiphenyl	9.071	8.972	9.172	52.610	50.000	5.2
delta-BHC	4.764	4.664	4.864	60.790	50.000	21.6
Dieldrin	6.346	6.247	6.447	56.690	50.000	13.4
Endosulfan I	6.074	5.975	6.175	56.550	50.000	13.1
Endosulfan II	6.785	6.686	6.886	55.400	50.000	10.8
Endosulfan sulfate	7.148	7.049	7.249	54.120	50.000	8.2
Endrin	6.573	6.475	6.675	52.870	50.000	5.7
Endrin aldehyde	6.914	6.815	7.015	54.050	50.000	8.1
Endrin ketone	7.629	7.530	7.730	55.310	50.000	10.6
gamma-BHC (Lindane)	4.330	4.230	4.430	58.070	50.000	16.1
gamma-Chlordane	5.945	5.846	6.046	59.180	50.000	18.4
Heptachlor	4.928	4.829	5.029	55.280	50.000	10.6
Heptachlor epoxide	5.690	5.591	5.791	55.990	50.000	12.0
Methoxychlor	7.492	7.393	7.593	51.020	50.000	2.0
Tetrachloro-m-xylene	3.550	3.450	3.650	58.680	50.000	17.4

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL03 **Date Analyzed:** 06/28/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089226.D **Time Analyzed:** 03:12

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.928	5.830	6.030	55.100	50.000	10.2
4,4'-DDE	5.374	5.275	5.475	55.740	50.000	11.5
4,4'-DDT	6.182	6.084	6.284	47.680	50.000	-4.6
Aldrin	4.367	4.269	4.469	57.260	50.000	14.5
alpha-BHC	3.392	3.293	3.493	57.920	50.000	15.8
alpha-Chlordane	5.189	5.091	5.291	56.100	50.000	12.2
beta-BHC	4.024	3.926	4.126	55.320	50.000	10.6
Decachlorobiphenyl	8.071	7.972	8.172	54.260	50.000	8.5
delta-BHC	4.261	4.162	4.362	56.750	50.000	13.5
Dieldrin	5.511	5.413	5.613	55.900	50.000	11.8
Endosulfan I	5.245	5.147	5.347	55.680	50.000	11.4
Endosulfan II	6.079	5.981	6.181	55.070	50.000	10.1
Endosulfan sulfate	6.481	6.383	6.583	53.830	50.000	7.7
Endrin	5.788	5.689	5.889	54.690	50.000	9.4
Endrin aldehyde	6.257	6.159	6.359	53.180	50.000	6.4
Endrin ketone	6.989	6.892	7.092	54.840	50.000	9.7
gamma-BHC (Lindane)	3.729	3.630	3.830	57.410	50.000	14.8
gamma-Chlordane	5.124	5.026	5.226	57.110	50.000	14.2
Heptachlor	4.082	3.983	4.183	54.310	50.000	8.6
Heptachlor epoxide	4.871	4.773	4.973	57.050	50.000	14.1
Methoxychlor	6.753	6.655	6.855	52.720	50.000	5.4
Tetrachloro-m-xylene	2.881	2.780	2.980	59.590	50.000	19.2

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/30/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 09:56 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.08	9.07	8.97	9.17	-0.01
Tetrachloro-m-xylene	3.56	3.55	3.45	3.65	-0.01
alpha-BHC	4.01	4.00	3.90	4.10	-0.01
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.76	4.66	4.86	-0.01
gamma-BHC (Lindane)	4.34	4.33	4.23	4.43	-0.01
Heptachlor	4.94	4.93	4.83	5.03	0.00
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	7.16	7.15	7.05	7.25	-0.01
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.49	7.39	7.59	-0.01
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/30/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 09:56 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL04 **Date Analyzed:** 06/30/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089230.D **Time Analyzed:** 09:56

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.710	6.605	6.805	53.380	50.000	6.8
4,4'-DDE	6.201	6.096	6.296	50.960	50.000	1.9
4,4'-DDT	7.026	6.921	7.121	42.730	50.000	-14.5
Aldrin	5.277	5.171	5.371	52.490	50.000	5.0
alpha-BHC	4.005	3.899	4.099	53.210	50.000	6.4
alpha-Chlordane	6.032	5.927	6.127	51.250	50.000	2.5
beta-BHC	4.521	4.415	4.615	50.740	50.000	1.5
Decachlorobiphenyl	9.078	8.972	9.172	48.640	50.000	-2.7
delta-BHC	4.770	4.664	4.864	54.000	50.000	8.0
Dieldrin	6.352	6.247	6.447	51.790	50.000	3.6
Endosulfan I	6.080	5.975	6.175	51.350	50.000	2.7
Endosulfan II	6.791	6.686	6.886	51.290	50.000	2.6
Endosulfan sulfate	7.155	7.049	7.249	49.650	50.000	-0.7
Endrin	6.580	6.475	6.675	46.870	50.000	-6.3
Endrin aldehyde	6.920	6.815	7.015	49.280	50.000	-1.4
Endrin ketone	7.634	7.530	7.730	51.330	50.000	2.7
gamma-BHC (Lindane)	4.336	4.230	4.430	52.320	50.000	4.6
gamma-Chlordane	5.951	5.846	6.046	52.780	50.000	5.6
Heptachlor	4.935	4.829	5.029	50.190	50.000	0.4
Heptachlor epoxide	5.696	5.591	5.791	50.880	50.000	1.8
Methoxychlor	7.498	7.393	7.593	57.870	50.000	15.7
Tetrachloro-m-xylene	3.555	3.450	3.650	52.550	50.000	5.1

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL04 **Date Analyzed:** 06/30/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089230.D **Time Analyzed:** 09:56

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.930	5.830	6.030	49.690	50.000	-0.6
4,4'-DDE	5.376	5.275	5.475	49.570	50.000	-0.9
4,4'-DDT	6.184	6.084	6.284	41.990	50.000	-16.0
Aldrin	4.369	4.269	4.469	50.790	50.000	1.6
alpha-BHC	3.393	3.293	3.493	51.090	50.000	2.2
alpha-Chlordane	5.191	5.091	5.291	49.510	50.000	-1.0
beta-BHC	4.026	3.926	4.126	49.850	50.000	-0.3
Decachlorobiphenyl	8.073	7.972	8.172	49.620	50.000	-0.8
delta-BHC	4.263	4.162	4.362	49.960	50.000	-0.1
Dieldrin	5.513	5.413	5.613	49.540	50.000	-0.9
Endosulfan I	5.247	5.147	5.347	49.140	50.000	-1.7
Endosulfan II	6.081	5.981	6.181	49.360	50.000	-1.3
Endosulfan sulfate	6.483	6.383	6.583	48.200	50.000	-3.6
Endrin	5.790	5.689	5.889	44.720	50.000	-10.6
Endrin aldehyde	6.260	6.159	6.359	48.270	50.000	-3.5
Endrin ketone	6.992	6.892	7.092	49.890	50.000	-0.2
gamma-BHC (Lindane)	3.730	3.630	3.830	50.660	50.000	1.3
gamma-Chlordane	5.126	5.026	5.226	49.650	50.000	-0.7
Heptachlor	4.083	3.983	4.183	47.330	50.000	-5.3
Heptachlor epoxide	4.873	4.773	4.973	50.950	50.000	1.9
Methoxychlor	6.755	6.655	6.855	55.470	50.000	10.9
Tetrachloro-m-xylene	2.880	2.780	2.980	52.470	50.000	4.9

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/30/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 17:08 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.08	9.07	8.97	9.17	-0.01
Tetrachloro-m-xylene	3.56	3.55	3.45	3.65	-0.01
alpha-BHC	4.01	4.00	3.90	4.10	-0.01
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.76	4.66	4.86	-0.01
gamma-BHC (Lindane)	4.34	4.33	4.23	4.43	-0.01
Heptachlor	4.94	4.93	4.83	5.03	-0.01
Aldrin	5.28	5.27	5.17	5.37	-0.01
Heptachlor epoxide	5.70	5.69	5.59	5.79	-0.01
Endosulfan I	6.08	6.08	5.98	6.18	0.00
Dieldrin	6.35	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	7.16	7.15	7.05	7.25	-0.01
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.49	7.39	7.59	-0.01
Endrin ketone	7.64	7.63	7.53	7.73	-0.01
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/30/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 17:08 **Initial Calibration Time(s):** 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.76	6.76	6.66	6.86	0.00
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.13	5.13	5.03	5.23	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL05 **Date Analyzed:** 06/30/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089241.D **Time Analyzed:** 17:08

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.711	6.605	6.805	52.240	50.000	4.5
4,4'-DDE	6.202	6.096	6.296	50.680	50.000	1.4
4,4'-DDT	7.027	6.921	7.121	42.510	50.000	-15.0
Aldrin	5.277	5.171	5.371	53.100	50.000	6.2
alpha-BHC	4.005	3.899	4.099	54.360	50.000	8.7
alpha-Chlordane	6.033	5.927	6.127	51.160	50.000	2.3
beta-BHC	4.522	4.415	4.615	51.930	50.000	3.9
Decachlorobiphenyl	9.079	8.972	9.172	48.610	50.000	-2.8
delta-BHC	4.771	4.664	4.864	54.890	50.000	9.8
Dieldrin	6.353	6.247	6.447	51.080	50.000	2.2
Endosulfan I	6.080	5.975	6.175	51.360	50.000	2.7
Endosulfan II	6.792	6.686	6.886	50.340	50.000	0.7
Endosulfan sulfate	7.155	7.049	7.249	48.940	50.000	-2.1
Endrin	6.580	6.475	6.675	47.410	50.000	-5.2
Endrin aldehyde	6.921	6.815	7.015	48.190	50.000	-3.6
Endrin ketone	7.636	7.530	7.730	48.760	50.000	-2.5
gamma-BHC (Lindane)	4.336	4.230	4.430	54.200	50.000	8.4
gamma-Chlordane	5.952	5.846	6.046	52.240	50.000	4.5
Heptachlor	4.936	4.829	5.029	51.190	50.000	2.4
Heptachlor epoxide	5.697	5.591	5.791	50.920	50.000	1.8
Methoxychlor	7.498	7.393	7.593	57.540	50.000	15.1
Tetrachloro-m-xylene	3.556	3.450	3.650	53.550	50.000	7.1

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL05 **Date Analyzed:** 06/30/2025

Lab Sample No.: PSTDCCC050 **Data File :** PD089241.D **Time Analyzed:** 17:08

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.931	5.830	6.030	49.480	50.000	-1.0
4,4'-DDE	5.376	5.275	5.475	49.650	50.000	-0.7
4,4'-DDT	6.184	6.084	6.284	42.410	50.000	-15.2
Aldrin	4.369	4.269	4.469	51.750	50.000	3.5
alpha-BHC	3.393	3.293	3.493	52.530	50.000	5.1
alpha-Chlordane	5.191	5.091	5.291	49.660	50.000	-0.7
beta-BHC	4.025	3.926	4.126	50.600	50.000	1.2
Decachlorobiphenyl	8.073	7.972	8.172	45.140	50.000	-9.7
delta-BHC	4.262	4.162	4.362	51.290	50.000	2.6
Dieldrin	5.514	5.413	5.613	49.820	50.000	-0.4
Endosulfan I	5.247	5.147	5.347	49.320	50.000	-1.4
Endosulfan II	6.081	5.981	6.181	48.420	50.000	-3.2
Endosulfan sulfate	6.483	6.383	6.583	47.530	50.000	-4.9
Endrin	5.790	5.689	5.889	46.410	50.000	-7.2
Endrin aldehyde	6.260	6.159	6.359	46.990	50.000	-6.0
Endrin ketone	6.992	6.892	7.092	46.930	50.000	-6.1
gamma-BHC (Lindane)	3.729	3.630	3.830	52.020	50.000	4.0
gamma-Chlordane	5.127	5.026	5.226	49.970	50.000	-0.1
Heptachlor	4.083	3.983	4.183	49.310	50.000	-1.4
Heptachlor epoxide	4.873	4.773	4.973	51.760	50.000	3.5
Methoxychlor	6.755	6.655	6.855	56.930	50.000	13.9
Tetrachloro-m-xylene	2.880	2.780	2.980	53.540	50.000	7.1

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No. (PEM): PEM - PD088991.D **Date Analyzed:** 06/17/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:25

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.071	8.970	9.170	21.440	20.000	7.2
Tetrachloro-m-xylene	3.550	3.500	3.600	19.860	20.000	-0.7
alpha-BHC	3.999	3.950	4.050	8.970	10.000	-10.3
beta-BHC	4.514	4.460	4.560	9.720	10.000	-2.8
gamma-BHC (Lindane)	4.330	4.280	4.380	9.320	10.000	-6.8
Endrin	6.574	6.500	6.640	50.260	50.000	0.5
4,4'-DDT	7.020	6.950	7.090	100.820	100.000	0.8
Methoxychlor	7.493	7.420	7.560	229.880	250.000	-8.0

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

Client Sample No. (PEM): PEM - PD088991.D **Date Analyzed:** 06/17/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 15:25

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.072	7.970	8.170	21.290	20.000	6.5
Tetrachloro-m-xylene	2.880	2.830	2.930	20.440	20.000	2.2
alpha-BHC	3.393	3.340	3.440	10.570	10.000	5.7
beta-BHC	4.025	3.970	4.080	10.750	10.000	7.5
gamma-BHC (Lindane)	3.729	3.680	3.780	10.580	10.000	5.8
Endrin	5.789	5.720	5.860	50.490	50.000	1.0
4,4'-DDT	6.183	6.110	6.250	96.080	100.000	-3.9
Methoxychlor	6.754	6.680	6.820	198.860	250.000	-20.5

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No. (PEM): PEM - PD089191.D **Date Analyzed:** 06/27/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 18:32

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.071	8.970	9.170	20.920	20.000	4.6
Tetrachloro-m-xylene	3.550	3.500	3.600	22.080	20.000	10.4
alpha-BHC	3.998	3.950	4.050	10.090	10.000	0.9
beta-BHC	4.515	4.460	4.570	11.260	10.000	12.6
gamma-BHC (Lindane)	4.328	4.280	4.380	10.260	10.000	2.6
Endrin	6.572	6.500	6.640	51.080	50.000	2.2
4,4'-DDT	7.020	6.950	7.090	80.720	100.000	-19.3
Methoxychlor	7.492	7.420	7.560	182.490	250.000	-27.0

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

Client Sample No. (PEM): PEM - PD089191.D **Date Analyzed:** 06/27/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 18:32

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.071	7.970	8.170	20.430	20.000	2.2
Tetrachloro-m-xylene	2.880	2.830	2.930	23.060	20.000	15.3
alpha-BHC	3.392	3.340	3.440	11.830	10.000	18.3
beta-BHC	4.025	3.970	4.080	10.760	10.000	7.6
gamma-BHC (Lindane)	3.729	3.680	3.780	11.860	10.000	18.6
Endrin	5.788	5.720	5.860	53.330	50.000	6.7
4,4'-DDT	6.182	6.110	6.250	80.360	100.000	-19.6
Methoxychlor	6.753	6.680	6.820	160.570	250.000	-35.8

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No. (PEM): PEM - PD089213.D **Date Analyzed:** 06/28/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 00:00

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.069	8.970	9.170	21.240	20.000	6.2
Tetrachloro-m-xylene	3.549	3.500	3.600	21.750	20.000	8.8
alpha-BHC	3.998	3.950	4.050	9.890	10.000	-1.1
beta-BHC	4.515	4.460	4.570	11.040	10.000	10.4
gamma-BHC (Lindane)	4.329	4.280	4.380	10.470	10.000	4.7
Endrin	6.571	6.500	6.640	50.810	50.000	1.6
4,4'-DDT	7.019	6.950	7.090	83.800	100.000	-16.2
Methoxychlor	7.491	7.420	7.560	192.420	250.000	-23.0

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

Client Sample No. (PEM): PEM - PD089213.D **Date Analyzed:** 06/28/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 00:00

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.070	7.970	8.170	21.940	20.000	9.7
Tetrachloro-m-xylene	2.881	2.830	2.930	22.940	20.000	14.7
alpha-BHC	3.392	3.340	3.440	11.760	10.000	17.6
beta-BHC	4.024	3.970	4.070	10.480	10.000	4.8
gamma-BHC (Lindane)	3.729	3.680	3.780	11.790	10.000	17.9
Endrin	5.788	5.720	5.860	54.740	50.000	9.5
4,4'-DDT	6.182	6.110	6.250	84.500	100.000	-15.5
Methoxychlor	6.752	6.680	6.820	172.360	250.000	-31.1

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No. (PEM): PEM - PD089229.D **Date Analyzed:** 06/30/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:02

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.073	8.970	9.170	22.620	20.000	13.1
Tetrachloro-m-xylene	3.550	3.500	3.600	23.210	20.000	16.1
alpha-BHC	3.999	3.950	4.050	10.940	10.000	9.4
beta-BHC	4.516	4.470	4.570	11.740	10.000	17.4
gamma-BHC (Lindane)	4.330	4.280	4.380	11.170	10.000	11.7
Endrin	6.574	6.500	6.640	52.040	50.000	4.1
4,4'-DDT	7.021	6.950	7.090	86.210	100.000	-13.8
Methoxychlor	7.493	7.420	7.560	196.180	250.000	-21.5

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

Client Sample No. (PEM): PEM - PD089229.D **Date Analyzed:** 06/30/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:02

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.071	7.970	8.170	23.170	20.000	15.9
Tetrachloro-m-xylene	2.881	2.830	2.930	24.320	20.000	21.6
alpha-BHC	3.391	3.340	3.440	12.490	10.000	24.9
beta-BHC	4.025	3.970	4.080	12.550	10.000	25.5
gamma-BHC (Lindane)	3.729	3.680	3.780	12.440	10.000	24.4
Endrin	5.788	5.720	5.860	49.470	50.000	-1.1
4,4'-DDT	6.182	6.110	6.250	83.680	100.000	-16.3
Methoxychlor	6.753	6.680	6.820	160.920	250.000	-35.6

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2436

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

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

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	06/17/2025	15:11	PD088990.D	9.07	3.55
PEM	PEM	06/17/2025	15:25	PD088991.D	9.07	3.55
RESCHK	RESCHK	06/17/2025	15:39	PD088992.D	9.07	3.55
PSTDICC100	PSTDICC100	06/17/2025	15:52	PD088993.D	9.07	3.55
PSTDICC075	PSTDICC075	06/17/2025	16:06	PD088994.D	9.07	3.55
PSTDICC050	PSTDICC050	06/17/2025	16:20	PD088995.D	9.07	3.55
PSTDICC025	PSTDICC025	06/17/2025	16:33	PD088996.D	9.07	3.55
PSTDICC005	PSTDICC005	06/17/2025	16:47	PD088997.D	9.07	3.55
PCHLORICC500	PCHLORICC500	06/17/2025	17:28	PD089000.D	9.07	3.55
PTOXICC500	PTOXICC500	06/17/2025	18:36	PD089005.D	9.07	3.55
PEM	PEM	06/27/2025	18:32	PD089191.D	9.07	3.55
I.BLK	I.BLK	06/27/2025	21:03	PD089201.D	9.07	3.55
PSTDCCC050	PSTDCCC050	06/27/2025	21:16	PD089202.D	9.07	3.55
PB168637BL	PB168637BL	06/27/2025	22:25	PD089206.D	9.07	3.55
MH-E/FMS	Q2430-01MS	06/27/2025	23:19	PD089210.D	9.07	3.55
MH-E/FMSD	Q2430-01MSD	06/27/2025	23:33	PD089211.D	9.07	3.55
I.BLK	I.BLK	06/27/2025	23:47	PD089212.D	9.07	3.55
PEM	PEM	06/28/2025	00:00	PD089213.D	9.07	3.55
PSTDCCC050	PSTDCCC050	06/28/2025	00:14	PD089214.D	9.07	3.55
TP-70	Q2436-01	06/28/2025	00:41	PD089215.D	9.07	3.55
TP-69	Q2436-02	06/28/2025	00:55	PD089216.D	9.07	3.55
TP-85	Q2436-03	06/28/2025	01:09	PD089217.D	9.07	3.55
TP-86	Q2436-04	06/28/2025	01:22	PD089218.D	9.07	3.55
TP-84	Q2436-05	06/28/2025	01:36	PD089219.D	9.07	3.55
TP-83	Q2436-06	06/28/2025	01:50	PD089220.D	9.07	3.55
TP-87	Q2436-07	06/28/2025	02:03	PD089221.D	9.07	3.55
TP-100	Q2436-08	06/28/2025	02:17	PD089222.D	9.07	3.55
TP-99	Q2436-09	06/28/2025	02:31	PD089223.D	9.07	3.55
TP-82	Q2436-10	06/28/2025	02:44	PD089224.D	9.07	3.55
I.BLK	I.BLK	06/28/2025	02:58	PD089225.D	9.07	3.55
PSTDCCC050	PSTDCCC050	06/28/2025	03:12	PD089226.D	9.07	3.55
I.BLK	I.BLK	06/30/2025	08:48	PD089228.D	9.07	3.55
PEM	PEM	06/30/2025	09:02	PD089229.D	9.07	3.55
PSTDCCC050	PSTDCCC050	06/30/2025	09:56	PD089230.D	9.08	3.56
PB168637BS	PB168637BS	06/30/2025	14:17	PD089233.D	9.08	3.56
I.BLK	I.BLK	06/30/2025	16:35	PD089240.D	9.07	3.55
PSTDCCC050	PSTDCCC050	06/30/2025	17:08	PD089241.D	9.08	3.56

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2436

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

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

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	06/17/2025	15:11	PD088990.D	8.07	2.88
PEM	PEM	06/17/2025	15:25	PD088991.D	8.07	2.88
RESCHK	RESCHK	06/17/2025	15:39	PD088992.D	8.07	2.88
PSTDICC100	PSTDICC100	06/17/2025	15:52	PD088993.D	8.07	2.88
PSTDICC075	PSTDICC075	06/17/2025	16:06	PD088994.D	8.07	2.88
PSTDICC050	PSTDICC050	06/17/2025	16:20	PD088995.D	8.07	2.88
PSTDICC025	PSTDICC025	06/17/2025	16:33	PD088996.D	8.07	2.88
PSTDICC005	PSTDICC005	06/17/2025	16:47	PD088997.D	8.07	2.88
PCHLORICC500	PCHLORICC500	06/17/2025	17:28	PD089000.D	8.07	2.88
PTOXICC500	PTOXICC500	06/17/2025	18:36	PD089005.D	8.07	2.88
PEM	PEM	06/27/2025	18:32	PD089191.D	8.07	2.88
I.BLK	I.BLK	06/27/2025	21:03	PD089201.D	8.07	2.88
PSTDCCC050	PSTDCCC050	06/27/2025	21:16	PD089202.D	8.07	2.88
PB168637BL	PB168637BL	06/27/2025	22:25	PD089206.D	8.07	2.88
MH-E/FMS	Q2430-01MS	06/27/2025	23:19	PD089210.D	8.07	2.88
MH-E/FMSD	Q2430-01MSD	06/27/2025	23:33	PD089211.D	8.07	2.88
I.BLK	I.BLK	06/27/2025	23:47	PD089212.D	8.07	2.88
PEM	PEM	06/28/2025	00:00	PD089213.D	8.07	2.88
PSTDCCC050	PSTDCCC050	06/28/2025	00:14	PD089214.D	8.07	2.88
TP-70	Q2436-01	06/28/2025	00:41	PD089215.D	8.07	2.88
TP-69	Q2436-02	06/28/2025	00:55	PD089216.D	8.07	2.88
TP-85	Q2436-03	06/28/2025	01:09	PD089217.D	8.07	2.88
TP-86	Q2436-04	06/28/2025	01:22	PD089218.D	8.07	2.88
TP-84	Q2436-05	06/28/2025	01:36	PD089219.D	8.07	2.88
TP-83	Q2436-06	06/28/2025	01:50	PD089220.D	8.07	2.88
TP-87	Q2436-07	06/28/2025	02:03	PD089221.D	8.07	2.88
TP-100	Q2436-08	06/28/2025	02:17	PD089222.D	8.08	2.87
TP-99	Q2436-09	06/28/2025	02:31	PD089223.D	8.07	2.88
TP-82	Q2436-10	06/28/2025	02:44	PD089224.D	8.07	2.88
I.BLK	I.BLK	06/28/2025	02:58	PD089225.D	8.07	2.88
PSTDCCC050	PSTDCCC050	06/28/2025	03:12	PD089226.D	8.07	2.88
I.BLK	I.BLK	06/30/2025	08:48	PD089228.D	8.07	2.88
PEM	PEM	06/30/2025	09:02	PD089229.D	8.07	2.88
PSTDCCC050	PSTDCCC050	06/30/2025	09:56	PD089230.D	8.07	2.88
PB168637BS	PB168637BS	06/30/2025	14:17	PD089233.D	8.07	2.88
I.BLK	I.BLK	06/30/2025	16:35	PD089240.D	8.07	2.88
PSTDCCC050	PSTDCCC050	06/30/2025	17:08	PD089241.D	8.07	2.88

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

MH-E/FMS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Lab Sample ID: Q2430-01MS **Date(s) Analyzed:** 06/27/2025 06/27/2025

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.70	6.65	6.75	16.6	2.4
	2	5.93	5.88	5.98	16.2	
4,4'-DDT	1	7.02	6.97	7.07	14.4	8.6
	2	6.18	6.13	6.23	15.7	
Aldrin	1	5.27	5.22	5.32	16.7	0.6
	2	4.37	4.32	4.42	16.8	
4,4'-DDE	1	6.20	6.15	6.25	16.4	0.6
	2	5.37	5.32	5.42	16.5	
Endosulfan II	1	6.79	6.74	6.84	16.1	1.8
	2	6.08	6.03	6.13	16.4	
Endrin aldehyde	1	6.91	6.86	6.96	15.9	0.6
	2	6.26	6.21	6.31	16.0	
Endosulfan sulfate	1	7.15	7.10	7.20	15.9	0.6
	2	6.48	6.43	6.53	16.0	
Methoxychlor	1	7.49	7.44	7.54	13.4	4.4
	2	6.75	6.70	6.80	14.0	
Endrin ketone	1	7.63	7.58	7.68	16.1	1.2
	2	6.99	6.94	7.04	16.3	
alpha-BHC	1	4.00	3.95	4.05	16.3	4.2
	2	3.39	3.34	3.44	17.0	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	16.4	2.4
	2	3.73	3.68	3.78	16.8	
Heptachlor	1	4.93	4.88	4.98	15.8	1.9
	2	4.08	4.03	4.13	16.1	
beta-BHC	1	4.52	4.47	4.57	16.5	1.2
	2	4.03	3.98	4.08	16.7	
delta-BHC	1	4.76	4.71	4.81	17.2	2.4
	2	4.26	4.21	4.31	16.8	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

MH-E/FMS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Lab Sample ID: Q2430-01MS **Date(s) Analyzed:** 06/27/2025 06/27/2025

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Heptachlor epoxide	1	5.69	5.64	5.74	16.2	2.4
	2	4.87	4.82	4.92	16.6	
Endosulfan I	1	6.07	6.02	6.12	16.4	1.8
	2	5.25	5.20	5.30	16.7	
gamma-Chlordane	1	5.95	5.90	6.00	16.6	0
	2	5.13	5.08	5.18	16.6	
alpha-Chlordane	1	6.03	5.98	6.08	16.3	1.2
	2	5.19	5.14	5.24	16.5	
Dieldrin	1	6.35	6.30	6.40	16.3	1.2
	2	5.51	5.46	5.56	16.5	
Endrin	1	6.57	6.52	6.62	15.6	2.5
	2	5.79	5.74	5.84	16.0	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

MH-E/FMSD

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Lab Sample ID: Q2430-01MSD **Date(s) Analyzed:** 06/27/2025 06/27/2025

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan sulfate	1	7.15	7.10	7.20	15.9	1.3
	2	6.48	6.43	6.53	16.1	
Methoxychlor	1	7.49	7.44	7.54	13.5	5.1
	2	6.75	6.70	6.80	14.2	
Endrin ketone	1	7.63	7.58	7.68	16.0	2.5
	2	6.99	6.94	7.04	16.4	
alpha-BHC	1	4.00	3.95	4.05	16.4	3.6
	2	3.39	3.34	3.44	17.0	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	16.5	1.8
	2	3.73	3.68	3.78	16.8	
Heptachlor	1	4.93	4.88	4.98	15.9	1.3
	2	4.08	4.03	4.13	16.1	
Aldrin	1	5.27	5.22	5.32	16.8	0
	2	4.37	4.32	4.42	16.8	
beta-BHC	1	4.52	4.47	4.57	16.6	0.6
	2	4.03	3.98	4.08	16.7	
delta-BHC	1	4.76	4.71	4.81	17.3	2.9
	2	4.26	4.21	4.31	16.8	
Heptachlor epoxide	1	5.69	5.64	5.74	16.3	2.4
	2	4.87	4.82	4.92	16.7	
Endosulfan I	1	6.07	6.02	6.12	16.4	2.4
	2	5.25	5.20	5.30	16.8	
gamma-Chlordane	1	5.94	5.89	5.99	16.6	0.6
	2	5.12	5.07	5.17	16.7	
alpha-Chlordane	1	6.03	5.98	6.08	16.3	1.8
	2	5.19	5.14	5.24	16.6	
4,4'-DDE	1	6.19	6.14	6.24	16.4	1.2
	2	5.37	5.32	5.42	16.6	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

MH-E/FMSD

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Lab Sample ID: Q2430-01MSD **Date(s) Analyzed:** 06/27/2025 06/27/2025

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Dieldrin	1	6.35	6.30	6.40	16.4	1.2
	2	5.51	5.46	5.56	16.6	
Endrin	1	6.57	6.52	6.62	15.7	3.8
	2	5.79	5.74	5.84	16.3	
Endosulfan II	1	6.78	6.73	6.83	15.9	4.3
	2	6.08	6.03	6.13	16.6	
4,4'-DDD	1	6.70	6.65	6.75	16.7	2.4
	2	5.93	5.88	5.98	16.3	
4,4'-DDT	1	7.02	6.97	7.07	14.4	9.3
	2	6.18	6.13	6.23	15.8	
Endrin aldehyde	1	6.91	6.86	6.96	15.9	1.3
	2	6.26	6.21	6.31	16.1	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB168637BS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Lab Sample ID: PB168637BS **Date(s) Analyzed:** 06/30/2025 06/30/2025

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	17.7	2.9
	2	5.93	5.88	5.98	17.2	
4,4'-DDE	1	6.20	6.15	6.25	16.4	1.8
	2	5.38	5.33	5.43	16.1	
4,4'-DDT	1	7.03	6.98	7.08	12.8	0
	2	6.19	6.14	6.24	12.8	
alpha-BHC	1	4.01	3.96	4.06	16.9	3
	2	3.39	3.34	3.44	16.4	
Aldrin	1	5.28	5.23	5.33	17.1	4.2
	2	4.37	4.32	4.42	16.4	
alpha-Chlordane	1	6.03	5.98	6.08	16.4	1.8
	2	5.19	5.14	5.24	16.1	
Endosulfan II	1	6.79	6.74	6.84	16.4	2.5
	2	6.08	6.03	6.13	16.0	
Endosulfan sulfate	1	7.16	7.11	7.21	16.0	1.3
	2	6.48	6.43	6.53	15.8	
beta-BHC	1	4.52	4.47	4.57	16.2	1.2
	2	4.03	3.98	4.08	16.0	
delta-BHC	1	4.77	4.72	4.82	17.5	7.1
	2	4.26	4.21	4.31	16.3	
Endosulfan I	1	6.08	6.03	6.13	16.5	0.6
	2	5.25	5.20	5.30	16.4	
Dieldrin	1	6.36	6.31	6.41	16.7	3.7
	2	5.51	5.46	5.56	16.1	
Endrin aldehyde	1	6.92	6.87	6.97	15.8	0.6
	2	6.26	6.21	6.31	15.7	
Methoxychlor	1	7.50	7.45	7.55	12.0	0.8
	2	6.76	6.71	6.81	12.1	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168637BS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Lab Sample ID: PB168637BS **Date(s) Analyzed:** 06/30/2025 06/30/2025

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin ketone	1	7.64	7.59	7.69	16.4	0
	2	6.99	6.94	7.04	16.4	
gamma-BHC (Lindane)	1	4.34	4.29	4.39	16.9	3.6
	2	3.73	3.68	3.78	16.3	
Heptachlor	1	4.94	4.89	4.99	16.0	5.1
	2	4.08	4.03	4.13	15.2	
Heptachlor epoxide	1	5.70	5.65	5.75	16.5	1.2
	2	4.87	4.82	4.92	16.3	
gamma-Chlordane	1	5.95	5.90	6.00	16.9	4.2
	2	5.13	5.08	5.18	16.2	
Endrin	1	6.58	6.53	6.63	14.7	2.1
	2	5.79	5.74	5.84	14.4	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-100

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Lab Sample ID: Q2436-08 **Date(s) Analyzed:** 06/28/2025 06/28/2025

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Heptachlor epoxide	1	5.69	5.64	5.74	1.10	24
	2	4.88	4.83	4.93	1.40	
gamma-Chlordane	1	5.95	5.90	6.00	12.9	32.4
	2	5.14	5.09	5.19	9.30	
alpha-Chlordane	1	6.03	5.98	6.08	22.9	48.9
	2	5.20	5.15	5.25	13.9	
Dieldrin	1	6.35	6.30	6.40	0.82	29.1
	2	5.52	5.47	5.57	1.10	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-82

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Lab Sample ID: Q2436-10 **Date(s) Analyzed:** 06/28/2025 06/28/2025

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Heptachlor epoxide	1	5.69	5.64	5.74	0.29	10.5
	2	4.87	4.82	4.92	0.33	
gamma-Chlordane	1	5.95	5.90	6.00	1.30	16.7
	2	5.12	5.07	5.17	1.10	
alpha-Chlordane	1	6.03	5.98	6.08	2.50	38.1
	2	5.19	5.14	5.24	1.70	
Dieldrin	1	6.35	6.30	6.40	0.44	33.2
	2	5.51	5.46	5.56	0.62	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-83

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Lab Sample ID: Q2436-06 **Date(s) Analyzed:** 06/28/2025 06/28/2025

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDE	1	6.19	6.14	6.24	0.20	27.2
	2	5.37	5.32	5.42	0.26	

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LAB CHRONICLE

OrderID:	Q2436	**OrderDate:**	6/26/2025 3:41:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2436-01	**TP-70**	**SOIL**			**06/25/25**			**06/26/25**
			PCB	8082A		06/27/25	06/27/25	
Q2436-02	**TP-69**	**SOIL**			**06/25/25**			**06/26/25**
			PCB	8082A		06/27/25	06/27/25	
Q2436-03	**TP-85**	**SOIL**			**06/25/25**			**06/26/25**
			PCB	8082A		06/27/25	06/27/25	
Q2436-04	**TP-86**	**SOIL**			**06/25/25**			**06/26/25**
			PCB	8082A		06/27/25	06/27/25	
Q2436-05	**TP-84**	**SOIL**			**06/25/25**			**06/26/25**
			PCB	8082A		06/27/25	06/27/25	
Q2436-06	**TP-83**	**SOIL**			**06/25/25**			**06/26/25**
			PCB	8082A		06/27/25	06/27/25	
Q2436-07	**TP-87**	**SOIL**			**06/26/25**			**06/26/25**
			PCB	8082A		06/27/25	06/27/25	
Q2436-08	**TP-100**	**SOIL**			**06/26/25**			**06/26/25**
			PCB	8082A		06/27/25	06/27/25	
Q2436-09	**TP-99**	**SOIL**			**06/26/25**			**06/26/25**
			PCB	8082A		06/27/25	06/27/25	
Q2436-10	**TP-82**	**SOIL**			**06/26/25**			**06/26/25**
			PCB	8082A		06/27/25	06/27/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2436 **Order ID:** Q2436

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	82.1 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073335.D	1	06/27/25 11:15	06/27/25 18:41	PB168636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.80	U	4.80	20.7	ug/kg
11104-28-2	Aroclor-1221	4.90	U	4.90	20.7	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	20.7	ug/kg
53469-21-9	Aroclor-1242	4.90	U	4.90	20.7	ug/kg
12672-29-6	Aroclor-1248	7.20	U	7.20	20.7	ug/kg
11097-69-1	Aroclor-1254	3.90	U	3.90	20.7	ug/kg
37324-23-5	Aroclor-1262	6.10	U	6.10	20.7	ug/kg
11100-14-4	Aroclor-1268	4.40	U	4.40	20.7	ug/kg
11096-82-5	Aroclor-1260	3.90	U	3.90	20.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.6		32 - 144	88%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.9		32 - 175	79%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	82 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073336.D	1	06/27/25 11:15	06/27/25 18:57	PB168636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.80	U	4.80	20.7	ug/kg
11104-28-2	Aroclor-1221	4.90	U	4.90	20.7	ug/kg
11141-16-5	Aroclor-1232	4.50	U	4.50	20.7	ug/kg
53469-21-9	Aroclor-1242	4.90	U	4.90	20.7	ug/kg
12672-29-6	Aroclor-1248	7.20	U	7.20	20.7	ug/kg
11097-69-1	Aroclor-1254	3.90	U	3.90	20.7	ug/kg
37324-23-5	Aroclor-1262	6.10	U	6.10	20.7	ug/kg
11100-14-4	Aroclor-1268	4.40	U	4.40	20.7	ug/kg
11096-82-5	Aroclor-1260	3.90	U	3.90	20.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.8		32 - 144	84%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.2		32 - 175	71%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	85.1 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073337.D	1	06/27/25 11:15	06/27/25 19:13	PB168636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.60	U	4.60	20.0	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	20.0	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	20.0	ug/kg
53469-21-9	Aroclor-1242	4.70	U	4.70	20.0	ug/kg
12672-29-6	Aroclor-1248	6.90	U	6.90	20.0	ug/kg
11097-69-1	Aroclor-1254	3.80	U	3.80	20.0	ug/kg
37324-23-5	Aroclor-1262	5.90	U	5.90	20.0	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	20.0	ug/kg
11096-82-5	Aroclor-1260	3.80	U	3.80	20.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	15.2		32 - 144	76%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.7		32 - 175	68%	SPK: 20

Comments:

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MDL = Method Detection Limit
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Q = indicates LCS control criteria did not meet requirements
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	88.7 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073338.D	1	06/27/25 11:15	06/27/25 19:29	PB168636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.40	U	4.40	19.1	ug/kg
11104-28-2	Aroclor-1221	4.50	U	4.50	19.1	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.1	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	19.1	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.1	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.1	ug/kg
37324-23-5	Aroclor-1262	5.60	U	5.60	19.1	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	19.1	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	19.1	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.9		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.5		32 - 175	87%	SPK: 20

Comments:

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

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	92.3 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073339.D	1	06/27/25 11:15	06/27/25 19:46	PB168636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.30	U	4.30	18.4	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.4	ug/kg
11141-16-5	Aroclor-1232	4.00	U	4.00	18.4	ug/kg
53469-21-9	Aroclor-1242	4.30	U	4.30	18.4	ug/kg
12672-29-6	Aroclor-1248	6.40	U	6.40	18.4	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.4	ug/kg
37324-23-5	Aroclor-1262	5.40	U	5.40	18.4	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	18.4	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	18.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.3		32 - 144	97%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.4		32 - 175	87%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073340.D	1	06/27/25 11:15	06/27/25 20:02	PB168636

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	17.6		32 - 144	88%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.7		32 - 175	83%	SPK: 20

Comments:

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

J = Estimated Value
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	89.9 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073341.D	1	06/27/25 11:15	06/27/25 20:18	PB168636

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	17.8		32 - 144	89%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.7		32 - 175	79%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	85.6 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073342.D	1	06/27/25 11:15	06/27/25 20:35	PB168636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.60	U	4.60	19.8	ug/kg
11104-28-2	Aroclor-1221	4.70	U	4.70	19.8	ug/kg
11141-16-5	Aroclor-1232	4.30	U	4.30	19.8	ug/kg
53469-21-9	Aroclor-1242	4.70	U	4.70	19.8	ug/kg
12672-29-6	Aroclor-1248	6.90	U	6.90	19.8	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.8	ug/kg
37324-23-5	Aroclor-1262	5.90	U	5.90	19.8	ug/kg
11100-14-4	Aroclor-1268	4.20	U	4.20	19.8	ug/kg
11096-82-5	Aroclor-1260	3.80	U	3.80	19.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.6		32 - 144	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.1		32 - 175	76%	SPK: 20

Comments:

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	92.2 Decanted:
Sample Wt/Vol:	30.09 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
PP073343.D	1	06/27/25 11:15	06/27/25 20:51	PB168636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.30	U	4.30	18.4	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.4	ug/kg
11141-16-5	Aroclor-1232	4.00	U	4.00	18.4	ug/kg
53469-21-9	Aroclor-1242	4.30	U	4.30	18.4	ug/kg
12672-29-6	Aroclor-1248	6.40	U	6.40	18.4	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.4	ug/kg
37324-23-5	Aroclor-1262	5.40	U	5.40	18.4	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	18.4	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	18.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.6		32 - 144	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.7		32 - 175	88%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	92 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073344.D	1	06/27/25 11:15	06/27/25 21:07	PB168636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.30	U	4.30	18.4	ug/kg
11104-28-2	Aroclor-1221	4.40	U	4.40	18.4	ug/kg
11141-16-5	Aroclor-1232	4.00	U	4.00	18.4	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	18.4	ug/kg
12672-29-6	Aroclor-1248	6.40	U	6.40	18.4	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	18.4	ug/kg
37324-23-5	Aroclor-1262	5.40	U	5.40	18.4	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	18.4	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	18.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.4		32 - 144	92%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.1		32 - 175	90%	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

Alliance TECHNICAL GROUP
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Surrogate Summary

SDG No.: Q2436

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PP072990.D	PIBLK-PP072990.D	Tetrachloro-m-xylene	1	20	17.3	86		60	140
		Decachlorobiphenyl	1	20	18.3	91		60	140
		Tetrachloro-m-xylene	2	20	18.0	90		60	140
		Decachlorobiphenyl	2	20	17.2	86		60	140
I.BLK-PP073320.D	PIBLK-PP073320.D	Tetrachloro-m-xylene	1	20	18.5	93		60	140
		Decachlorobiphenyl	1	20	19.0	95		60	140
		Tetrachloro-m-xylene	2	20	18.3	91		60	140
		Decachlorobiphenyl	2	20	20.4	102		60	140
PB168636BL	PB168636BL	Tetrachloro-m-xylene	1	20	18.5	92		32	144
		Decachlorobiphenyl	1	20	18.2	91		32	175
		Tetrachloro-m-xylene	2	20	18.4	92		32	144
		Decachlorobiphenyl	2	20	19.6	98		32	175
PB168636BS	PB168636BS	Tetrachloro-m-xylene	1	20	19.2	96		32	144
		Decachlorobiphenyl	1	20	18.7	93		32	175
		Tetrachloro-m-xylene	2	20	18.8	94		32	144
		Decachlorobiphenyl	2	20	20.3	101		32	175
Q2430-01MS	MH-E/FMS	Tetrachloro-m-xylene	1	20	20.0	100		32	144
		Decachlorobiphenyl	1	20	18.0	90		32	175
		Tetrachloro-m-xylene	2	20	19.1	96		32	144
		Decachlorobiphenyl	2	20	20.1	100		32	175
Q2430-01MSD	MH-E/FMSD	Tetrachloro-m-xylene	1	20	19.6	98		32	144
		Decachlorobiphenyl	1	20	17.7	89		32	175
		Tetrachloro-m-xylene	2	20	18.9	94		32	144
		Decachlorobiphenyl	2	20	19.0	95		32	175
I.BLK-PP073334.D	PIBLK-PP073334.D	Tetrachloro-m-xylene	1	20	17.0	85		60	140
		Decachlorobiphenyl	1	20	17.3	87		60	140
		Tetrachloro-m-xylene	2	20	17.4	87		60	140
		Decachlorobiphenyl	2	20	19.1	95		60	140
Q2436-01	TP-70	Tetrachloro-m-xylene	1	20	17.1	86		32	144
		Decachlorobiphenyl	1	20	13.8	69		32	175
		Tetrachloro-m-xylene	2	20	17.6	88		32	144
		Decachlorobiphenyl	2	20	15.9	79		32	175
Q2436-02	TP-69	Tetrachloro-m-xylene	1	20	15.9	80		32	144
		Decachlorobiphenyl	1	20	12.0	60		32	175
		Tetrachloro-m-xylene	2	20	16.8	84		32	144
		Decachlorobiphenyl	2	20	14.2	71		32	175
Q2436-03	TP-85	Tetrachloro-m-xylene	1	20	14.8	74		32	144
		Decachlorobiphenyl	1	20	11.6	58		32	175
		Tetrachloro-m-xylene	2	20	15.2	76		32	144
		Decachlorobiphenyl	2	20	13.7	68		32	175
Q2436-04	TP-86	Tetrachloro-m-xylene	1	20	18.2	91		32	144

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Surrogate Summary

SDG No.: Q2436

Client: CDM Smith

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
Q2436-04	TP-86	Decachlorobiphenyl	1	20	15.2	76		32	175
		Tetrachloro-m-xylene	2	20	18.9	94		32	144
		Decachlorobiphenyl	2	20	17.5	87		32	175
Q2436-05	TP-84	Tetrachloro-m-xylene	1	20	17.5	87		32	144
		Decachlorobiphenyl	1	20	15.1	75		32	175
		Tetrachloro-m-xylene	2	20	19.3	97		32	144
		Decachlorobiphenyl	2	20	17.4	87		32	175
Q2436-06	TP-83	Tetrachloro-m-xylene	1	20	16.6	83		32	144
		Decachlorobiphenyl	1	20	14.5	72		32	175
		Tetrachloro-m-xylene	2	20	17.6	88		32	144
		Decachlorobiphenyl	2	20	16.7	83		32	175
Q2436-07	TP-87	Tetrachloro-m-xylene	1	20	16.7	83		32	144
		Decachlorobiphenyl	1	20	13.7	68		32	175
		Tetrachloro-m-xylene	2	20	17.8	89		32	144
		Decachlorobiphenyl	2	20	15.7	79		32	175
Q2436-08	TP-100	Tetrachloro-m-xylene	1	20	17.4	87		32	144
		Decachlorobiphenyl	1	20	13.6	68		32	175
		Tetrachloro-m-xylene	2	20	18.6	93		32	144
		Decachlorobiphenyl	2	20	15.1	76		32	175
Q2436-09	TP-99	Tetrachloro-m-xylene	1	20	17.8	89		32	144
		Decachlorobiphenyl	1	20	15.7	79		32	175
		Tetrachloro-m-xylene	2	20	18.6	93		32	144
		Decachlorobiphenyl	2	20	17.7	88		32	175
Q2436-10	TP-82	Tetrachloro-m-xylene	1	20	17.2	86		32	144
		Decachlorobiphenyl	1	20	16.1	81		32	175
		Tetrachloro-m-xylene	2	20	18.4	92		32	144
		Decachlorobiphenyl	2	20	18.1	90		32	175
I.BLK-PP073350.D	PIBLK-PP073350.D	Tetrachloro-m-xylene	1	20	17.4	87		60	140
		Decachlorobiphenyl	1	20	17.8	89		60	140
		Tetrachloro-m-xylene	2	20	18.6	93		60	140
		Decachlorobiphenyl	2	20	20.2	101		60	140

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	Q2436	**Analytical Method:**	8082A
Client:	CDM Smith	**DataFile :**	PP073327.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**MH-E/FMS**											
Q2430-01MS (Column 1)	AR1016	188.5	0	174	ug/kg	92				55	146	
	AR1260	188.5	0	158	ug/kg	84				54	119	
Client Sample ID:	**MH-E/FMS**											
Q2430-01MS (Column 2)	AR1016	188.5	0	173	ug/kg	92				55	146	
	AR1260	188.5	0	161	ug/kg	85				54	119	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2436 **Analytical Method:** 8082A

Client: CDM Smith **DataFile :** PP073328.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**MH-E/FMSD**											
Q2430-01MSD (Column 1)	AR1016	188.7	0	176	ug/kg	93		1		55	146	15
	AR1260	188.7	0	158	ug/kg	84		0		54	119	15
Client Sample ID:	**MH-E/FMSD**											
Q2430-01MSD (Column 2)	AR1016	188.7	0	165	ug/kg	87		6		55	146	15
	AR1260	188.7	0	162	ug/kg	86		1		54	119	15

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436 **Analytical Method:** 8082A

Client: CDM Smith **Datafile :** PP073324.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168636BS (Column 1)	AR1016	166.6	156	ug/kg	94				71	120	
	AR1260	166.6	141	ug/kg	85				65	130	
PB168636BS (Column 2)	AR1016	166.6	150	ug/kg	90				71	120	
	AR1260	166.6	146	ug/kg	88				65	130	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168636BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab Sample ID: PB168636BL Lab File ID: PP073323.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 06/27/2025

Date Analyzed (1): 06/27/2025 Date Analyzed (2): 06/27/2025

Time Analyzed (1): 14:20 Time Analyzed (2): 14:20

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
PB168636BS	PB168636BS	PP073324.D	06/27/2025	06/27/2025
MH-E/FMS	Q2430-01MS	PP073327.D	06/27/2025	06/27/2025
MH-E/FMSD	Q2430-01MSD	PP073328.D	06/27/2025	06/27/2025
TP-70	Q2436-01	PP073335.D	06/27/2025	06/27/2025
TP-69	Q2436-02	PP073336.D	06/27/2025	06/27/2025
TP-85	Q2436-03	PP073337.D	06/27/2025	06/27/2025
TP-86	Q2436-04	PP073338.D	06/27/2025	06/27/2025
TP-84	Q2436-05	PP073339.D	06/27/2025	06/27/2025
TP-83	Q2436-06	PP073340.D	06/27/2025	06/27/2025
TP-87	Q2436-07	PP073341.D	06/27/2025	06/27/2025
TP-100	Q2436-08	PP073342.D	06/27/2025	06/27/2025
TP-99	Q2436-09	PP073343.D	06/27/2025	06/27/2025
TP-82	Q2436-10	PP073344.D	06/27/2025	06/27/2025

COMMENTS:

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Instrument ID: ECD_P **Calibration Date(s):** 06/17/2025 06/17/2025

Calibration Times: 10:04 20:10

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

LAB FILE ID: RT 1000 = PP072991.D RT 750 = PP072992.D

RT 500 = PP072993.D RT 250 = PP072994.D RT 050 = PP072995.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.65	5.65	5.65	5.65	5.65	5.65	5.55	5.75
Aroclor-1016-2	(2)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1016-3	(3)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Aroclor-1016-4	(4)	5.83	5.83	5.83	5.83	5.83	5.83	5.73	5.93
Aroclor-1016-5	(5)	6.12	6.12	6.12	6.12	6.12	6.12	6.02	6.22
Aroclor-1260-1	(1)	7.24	7.24	7.24	7.24	7.24	7.24	7.14	7.34
Aroclor-1260-2	(2)	7.49	7.49	7.49	7.49	7.49	7.49	7.39	7.59
Aroclor-1260-3	(3)	7.85	7.85	7.85	7.85	7.85	7.85	7.75	7.95
Aroclor-1260-4	(4)	8.07	8.07	8.07	8.07	8.07	8.07	7.97	8.17
Aroclor-1260-5	(5)	8.39	8.39	8.39	8.39	8.39	8.39	8.29	8.49
Decachlorobiphenyl		10.19	10.19	10.19	10.19	10.19	10.19	10.09	10.29
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.50	4.49	4.39	4.59
Aroclor-1242-1	(1)	5.65	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Aroclor-1242-2	(2)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1242-3	(3)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Aroclor-1242-4	(4)	5.83	5.82	5.83	5.83	5.82	5.83	5.73	5.93
Aroclor-1242-5	(5)	6.56	6.55	6.56	6.56	6.55	6.56	6.46	6.66
Decachlorobiphenyl		10.19	10.19	10.19	10.19	10.18	10.19	10.09	10.29
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	5.65	5.64	5.64	5.64	5.54	5.74
Aroclor-1248-2	(2)	5.92	5.92	5.92	5.92	5.91	5.92	5.82	6.02
Aroclor-1248-3	(3)	6.12	6.12	6.12	6.12	6.12	6.12	6.02	6.22
Aroclor-1248-4	(4)	6.52	6.52	6.52	6.52	6.52	6.52	6.42	6.62
Aroclor-1248-5	(5)	6.56	6.56	6.56	6.56	6.55	6.56	6.46	6.66
Decachlorobiphenyl		10.19	10.19	10.19	10.19	10.18	10.19	10.09	10.29
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1254-1	(1)	6.49	6.49	6.49	6.49	6.49	6.49	6.39	6.59
Aroclor-1254-2	(2)	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
Aroclor-1254-3	(3)	7.07	7.07	7.07	7.07	7.07	7.07	6.97	7.17
Aroclor-1254-4	(4)	7.35	7.35	7.35	7.36	7.35	7.35	7.25	7.45
Aroclor-1254-5	(5)	7.77	7.77	7.77	7.77	7.77	7.77	7.67	7.87
Decachlorobiphenyl		10.19	10.19	10.19	10.19	10.19	10.19	10.09	10.29
Tetrachloro-m-xylene		4.49	4.49	4.49	4.49	4.49	4.49	4.39	4.59
Aroclor-1268-1	(1)	8.70	8.70	8.70	8.70	8.70	8.70	8.60	8.80
Aroclor-1268-2	(2)	8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Aroclor-1268-3	(3)	9.02	9.02	9.02	9.02	9.02	9.02	8.92	9.12
Aroclor-1268-4	(4)	9.44	9.44	9.44	9.44	9.44	9.44	9.34	9.54
Aroclor-1268-5	(5)	9.85	9.85	9.85	9.85	9.85	9.85	9.75	9.95

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.19	10.18	10.18	10.19	10.18	10.19	10.09	10.29
Tetrachloro-m-xylene	4.49	4.49	4.49	4.50	4.49	4.49	4.39	4.59

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Instrument ID: ECD_P **Calibration Date(s):** 06/17/2025 06/17/2025

Calibration Times: 10:04 20:10

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

LAB FILE ID: RT 1000 = PP072991.D RT 750 = PP072992.D

RT 500 = PP072993.D RT 250 = PP072994.D RT 050 = PP072995.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.87	4.87	4.87	4.87	4.87	4.87	4.77	4.97
Aroclor-1016-2	(2)	4.89	4.89	4.89	4.89	4.89	4.89	4.79	4.99
Aroclor-1016-3	(3)	5.06	5.06	5.06	5.06	5.06	5.06	4.96	5.16
Aroclor-1016-4	(4)	5.11	5.11	5.10	5.11	5.10	5.11	5.01	5.21
Aroclor-1016-5	(5)	5.32	5.32	5.32	5.32	5.32	5.32	5.22	5.42
Aroclor-1260-1	(1)	6.35	6.35	6.35	6.35	6.35	6.35	6.25	6.45
Aroclor-1260-2	(2)	6.54	6.54	6.54	6.54	6.54	6.54	6.44	6.64
Aroclor-1260-3	(3)	6.69	6.69	6.69	6.69	6.69	6.69	6.59	6.79
Aroclor-1260-4	(4)	7.16	7.16	7.16	7.16	7.16	7.16	7.06	7.26
Aroclor-1260-5	(5)	7.40	7.40	7.40	7.40	7.40	7.40	7.30	7.50
Decachlorobiphenyl		8.80	8.80	8.80	8.80	8.80	8.80	8.70	8.90
Tetrachloro-m-xylene		3.79	3.79	3.79	3.79	3.79	3.79	3.69	3.89
Aroclor-1242-1	(1)	4.87	4.87	4.87	4.87	4.87	4.87	4.77	4.97
Aroclor-1242-2	(2)	4.89	4.89	4.89	4.89	4.89	4.89	4.79	4.99
Aroclor-1242-3	(3)	5.06	5.06	5.06	5.06	5.06	5.06	4.96	5.16
Aroclor-1242-4	(4)	5.15	5.15	5.15	5.15	5.15	5.15	5.05	5.25
Aroclor-1242-5	(5)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Decachlorobiphenyl		8.80	8.80	8.80	8.80	8.80	8.80	8.70	8.90
Tetrachloro-m-xylene		3.79	3.79	3.79	3.79	3.79	3.79	3.69	3.89
Aroclor-1248-1	(1)	4.87	4.87	4.87	4.87	4.87	4.87	4.77	4.97
Aroclor-1248-2	(2)	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Aroclor-1248-3	(3)	5.15	5.15	5.15	5.15	5.15	5.15	5.05	5.25
Aroclor-1248-4	(4)	5.32	5.32	5.32	5.32	5.32	5.32	5.22	5.42
Aroclor-1248-5	(5)	5.71	5.71	5.71	5.71	5.71	5.71	5.61	5.81
Decachlorobiphenyl		8.80	8.80	8.80	8.80	8.80	8.80	8.70	8.90
Tetrachloro-m-xylene		3.79	3.79	3.79	3.79	3.79	3.79	3.69	3.89
Aroclor-1254-1	(1)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1254-2	(2)	5.82	5.82	5.82	5.82	5.82	5.82	5.72	5.92
Aroclor-1254-3	(3)	6.22	6.22	6.22	6.22	6.22	6.22	6.12	6.32
Aroclor-1254-4	(4)	6.45	6.45	6.45	6.45	6.45	6.45	6.35	6.55
Aroclor-1254-5	(5)	6.86	6.86	6.86	6.87	6.86	6.86	6.76	6.96
Decachlorobiphenyl		8.80	8.80	8.80	8.80	8.80	8.80	8.70	8.90
Tetrachloro-m-xylene		3.79	3.79	3.79	3.79	3.79	3.79	3.69	3.89
Aroclor-1268-1	(1)	7.68	7.68	7.68	7.68	7.68	7.68	7.58	7.78
Aroclor-1268-2	(2)	7.75	7.75	7.75	7.75	7.75	7.75	7.65	7.85
Aroclor-1268-3	(3)	7.95	7.95	7.95	7.95	7.95	7.95	7.85	8.05
Aroclor-1268-4	(4)	8.24	8.25	8.25	8.24	8.24	8.24	8.14	8.34
Aroclor-1268-5	(5)	8.54	8.54	8.54	8.54	8.54	8.54	8.44	8.64

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.80	8.80	8.80	8.80	8.80	8.80	8.70	8.90
Tetrachloro-m-xylene	3.79	3.79	3.79	3.79	3.79	3.79	3.69	3.89

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Instrument ID: ECD_P **Calibration Date(s):** 06/17/2025 06/17/2025

Calibration Times: 10:04 20:10

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

LAB FILE ID: **CF 1000 =** PP072991.D **CF 750 =** PP072992.D

CF 500 = PP072993.D **CF 250 =** PP072994.D **CF 050 =** PP072995.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	63671603	67644257	70148492	76963128	84930220	72671540	12
Aroclor-1016-2	(2)	97440661	102354848	107008936	114458460	98840440	104020669	7
Aroclor-1016-3	(3)	59983524	63267185	65041372	73554480	64895380	65348388	8
Aroclor-1016-4	(4)	50589003	52912481	54400336	56287652	47214800	52280854	7
Aroclor-1016-5	(5)	46240143	47840919	49349310	51433860	55161280	50005102	7
Aroclor-1260-1	(1)	82538787	86792979	90284630	94211564	87238820	88213356	5
Aroclor-1260-2	(2)	125600539	132072107	137363486	143645412	140737120	135883733	5
Aroclor-1260-3	(3)	106201830	111185451	115341698	120182220	117849880	114152216	5
Aroclor-1260-4	(4)	98670506	102821608	101520658	108282220	103932620	103045522	3
Aroclor-1260-5	(5)	227637841	236485680	245198018	255372264	238418920	240622545	4
Decachlorobiphenyl		1620648950	1677444467	1749703060	1784234960	1712434400	1708893167	4
Tetrachloro-m-xylene		1977356170	2059482187	2109826840	2243117400	2164249200	2110806359	5
Aroclor-1242-1	(1)	54005130	54512615	57421654	60290804	65956000	58437241	8
Aroclor-1242-2	(2)	81931377	79616400	88109514	98852440	84261940	86554334	9
Aroclor-1242-3	(3)	50398728	48446856	53645312	57446220	53601300	52707683	7
Aroclor-1242-4	(4)	42240385	41710237	44319270	46660108	44861080	43958216	5
Aroclor-1242-5	(5)	45003164	45972225	47192024	56790384	52840600	49559679	10
Decachlorobiphenyl		1612495640	1627929573	1725341220	1814607120	1610121000	1678098911	5
Tetrachloro-m-xylene		1888746510	1833283947	1976454780	2024098800	2031619200	1950840647	4
Aroclor-1248-1	(1)	41858490	44170731	45862520	49041552	56908940	47568447	12
Aroclor-1248-2	(2)	55380415	58022209	55617524	59041032	64693660	58550968	6
Aroclor-1248-3	(3)	63266998	66239924	62737624	66758520	67243400	65249293	3
Aroclor-1248-4	(4)	77728954	82015129	82895984	86036548	96645880	85064499	8
Aroclor-1248-5	(5)	75041779	78134308	81070348	82544344	101675060	83693168	12
Decachlorobiphenyl		1620420410	1689508547	1707113880	1772211040	1987340600	1755318895	8
Tetrachloro-m-xylene		1885218090	1960849747	1904121260	1960400040	2044577000	1951033227	3
Aroclor-1254-1	(1)	73763285	78885443	81757104	88891384	97572240	84173891	11
Aroclor-1254-2	(2)	111451506	118674340	123357828	133620984	139899720	125400876	9
Aroclor-1254-3	(3)	119235877	126285657	130365552	141133040	139034740	131210973	7
Aroclor-1254-4	(4)	108754762	114515340	117946542	128101128	129602040	119783962	7
Aroclor-1254-5	(5)	106940669	112254864	115991910	123909512	112185340	114256459	6
Decachlorobiphenyl		1648218000	1739306053	1775656020	1935470960	1659491600	1751628527	7
Tetrachloro-m-xylene		1872735760	1960277133	2019595300	2159825040	2074265000	2017339647	5
Aroclor-1268-1	(1)	342609292	345928729	355896714	398597476	345083220	357623086	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	290418323	293649853	302966618	340918088	297353440	305061264	7
Aroclor-1268-3	(3)	249992898	253511760	262173960	295232256	266657480	265513671	7
Aroclor-1268-4	(4)	114648839	115165531	118059850	128871696	108376940	117024571	6
Aroclor-1268-5	(5)	713831298	735909031	738672980	819932440	689883900	739645930	7
Decachlorobiphenyl		3002859930	3106573307	3204862440	3588507520	3062996400	3193159919	7
Tetrachloro-m-xylene		1965399560	2013897333	2066727860	2334276840	2005844200	2077229159	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Instrument ID: ECD_P **Calibration Date(s):** 06/17/2025 06/17/2025

Calibration Times: 10:04 20:10

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

LAB FILE ID: **CF 1000 =** PP072991.D **CF 750 =** PP072992.D

CF 500 = PP072993.D **CF 250 =** PP072994.D **CF 050 =** PP072995.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	58734267	64000205	67674152	72695560	80484240	68717685	12
Aroclor-1016-2	(2)	90382349	94344453	98038690	104433472	115993580	100638509	10
Aroclor-1016-3	(3)	48136215	50748025	53595712	56975444	64125620	54716203	11
Aroclor-1016-4	(4)	38107893	40907291	43245840	46954372	53532680	44549615	13
Aroclor-1016-5	(5)	49203503	51615780	54910048	58505108	62177080	55282304	9
Aroclor-1260-1	(1)	84892100	88579871	95448406	100236824	104495860	94730612	9
Aroclor-1260-2	(2)	105588352	108160505	115763440	121715240	130953840	116436275	9
Aroclor-1260-3	(3)	96095206	97763095	104346708	109521728	113078520	104161051	7
Aroclor-1260-4	(4)	77788306	79915727	86740682	92092068	102155800	87738517	11
Aroclor-1260-5	(5)	196041650	198840268	209548214	218270728	244301260	213400424	9
Decachlorobiphenyl		1225771100	1248497173	1342901640	1435827000	1420581600	1334715703	7
Tetrachloro-m-xylene		1662896120	1767446653	1788437460	1893713440	1896490200	1801796775	5
Aroclor-1242-1	(1)	50070930	49549424	54443442	59214632	62816600	55219006	10
Aroclor-1242-2	(2)	73623300	71492977	79469612	84317900	88528280	79486414	9
Aroclor-1242-3	(3)	39446084	38282884	42982138	46709656	49104180	43304988	11
Aroclor-1242-4	(4)	37721961	36558999	41186366	44840456	47211420	41503840	11
Aroclor-1242-5	(5)	49158591	46923105	52837542	55505240	58508140	52586524	9
Decachlorobiphenyl		1205418560	1226140693	1281128260	1336855440	1341504000	1278209391	5
Tetrachloro-m-xylene		1683517200	1544398853	1783586240	1693726480	1780668000	1697179355	6
Aroclor-1248-1	(1)	39929038	42320627	40002718	45282436	50417100	43590384	10
Aroclor-1248-2	(2)	53044396	57410791	53304096	60483108	68735640	58595606	11
Aroclor-1248-3	(3)	55822275	59851821	54787908	62834628	69424220	60544170	10
Aroclor-1248-4	(4)	64712793	69142612	62749900	72698224	80808780	70022462	10
Aroclor-1248-5	(5)	65436447	68813545	68635516	72459776	79814180	71031893	8
Decachlorobiphenyl		1226985710	1250965200	1294060880	1349363760	1435080400	1311291190	6
Tetrachloro-m-xylene		1707872610	1775213400	1595172200	1742416320	1838339400	1731802786	5
Aroclor-1254-1	(1)	94131500	102369100	108358230	120483728	122907600	109650032	11
Aroclor-1254-2	(2)	80645865	88030495	92596756	103733056	107725280	94546290	12
Aroclor-1254-3	(3)	128776319	138178049	147317104	161124892	162339800	147547233	10
Aroclor-1254-4	(4)	83562949	90268741	96675708	106896836	108101020	97101051	11
Aroclor-1254-5	(5)	116424396	122854644	129598642	142067368	138868340	129962678	8
Decachlorobiphenyl		1234350420	1314370427	1354328000	1438665160	1427909200	1353924641	6
Tetrachloro-m-xylene		1670033590	1775346533	1836392320	1937020080	1788575000	1801473505	5
Aroclor-1268-1	(1)	263809069	277704169	280800266	313024424	300977600	287263106	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	236468443	251452185	251704404	280300416	265662900	257117670	6
Aroclor-1268-3	(3)	197435098	210533244	211556648	231588560	228588480	215940406	7
Aroclor-1268-4	(4)	83966367	90997261	93004838	103484904	99474300	94185534	8
Aroclor-1268-5	(5)	544182935	572449871	587387342	623593632	566405340	578803824	5
Decachlorobiphenyl		2216214780	2314031280	2438938620	2677731000	2452104000	2419803936	7
Tetrachloro-m-xylene		1798342890	1816167067	1835922080	2018457320	1810038400	1855785551	5

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Instrument ID: ECD_P **Date(s) Analyzed:** 06/17/2025 06/17/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.69	4.59	4.79	24659200
		2	4.78	4.68	4.88	20179000
		3	4.85	4.75	4.95	61551400
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.86	4.76	4.96	46956200
		2	5.38	5.28	5.48	22369800
		3	5.67	5.57	5.77	51597600
		4	5.83	5.73	5.93	25810400
		5	5.92	5.82	6.02	35670200
Aroclor-1262	500	1	8.07	7.97	8.17	148023000
		2	8.39	8.29	8.49	316466000
		3	8.70	8.60	8.80	213972000
		4	8.79	8.69	8.89	157593000
		5	9.44	9.34	9.54	111864000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Instrument ID: ECD_P **Date(s) Analyzed:** 06/17/2025 06/17/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.00	3.90	4.10	26872400
		2	4.09	3.99	4.19	20185400
		3	4.16	4.06	4.26	58732000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.16	4.06	4.26	45564800
		2	4.89	4.79	4.99	46259800
		3	5.06	4.96	5.16	24558000
		4	5.15	5.05	5.25	21625200
		5	5.32	5.22	5.42	22858800
Aroclor-1262	500	1	6.90	6.80	7.00	144467000
		2	7.16	7.06	7.26	122231000
		3	7.68	7.58	7.78	112703000
		4	7.75	7.65	7.85	183356000
		5	8.24	8.14	8.34	86585200

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/27/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 09:13 **Initial Calibration Time(s):** 10:04 20:10

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.64	5.65	5.55	5.75	0.01
Aroclor-1016-2	(2)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-3	(3)	5.72	5.73	5.63	5.83	0.01
Aroclor-1016-4	(4)	5.82	5.83	5.73	5.93	0.01
Aroclor-1016-5	(5)	6.11	6.12	6.02	6.22	0.01
Aroclor-1260-1	(1)	7.23	7.24	7.14	7.34	0.01
Aroclor-1260-2	(2)	7.48	7.49	7.39	7.59	0.01
Aroclor-1260-3	(3)	7.84	7.85	7.75	7.95	0.01
Aroclor-1260-4	(4)	8.06	8.07	7.97	8.17	0.01
Aroclor-1260-5	(5)	8.38	8.39	8.29	8.49	0.01
Tetrachloro-m-xylene		4.49	4.49	4.39	4.59	0.00
Decachlorobiphenyl		10.18	10.19	10.09	10.29	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/27/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 09:13 **Initial Calibration Time(s):** 10:04 20:10

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	4.87	4.77	4.97	0.01
Aroclor-1016-2	(2)	4.88	4.89	4.79	4.99	0.01
Aroclor-1016-3	(3)	5.06	5.06	4.96	5.16	0.01
Aroclor-1016-4	(4)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-5	(5)	5.31	5.32	5.22	5.42	0.01
Aroclor-1260-1	(1)	6.34	6.35	6.25	6.45	0.01
Aroclor-1260-2	(2)	6.53	6.54	6.44	6.64	0.01
Aroclor-1260-3	(3)	6.68	6.69	6.59	6.79	0.01
Aroclor-1260-4	(4)	7.15	7.16	7.06	7.26	0.01
Aroclor-1260-5	(5)	7.39	7.40	7.30	7.50	0.01
Tetrachloro-m-xylene		3.78	3.79	3.69	3.89	0.01
Decachlorobiphenyl		8.79	8.80	8.70	8.90	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL01 **Date Analyzed:** 06/27/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073315.D **Time Analyzed:** 09:13

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.640	5.546	5.746	453.800	500.000	-9.2
Aroclor-1016-2	5.661	5.567	5.767	482.630	500.000	-3.5
Aroclor-1016-3	5.723	5.629	5.829	481.630	500.000	-3.7
Aroclor-1016-4	5.820	5.727	5.927	511.310	500.000	2.3
Aroclor-1016-5	6.112	6.019	6.219	481.930	500.000	-3.6
Aroclor-1260-1	7.228	7.136	7.336	481.910	500.000	-3.6
Aroclor-1260-2	7.482	7.389	7.589	482.230	500.000	-3.6
Aroclor-1260-3	7.840	7.747	7.947	467.900	500.000	-6.4
Aroclor-1260-4	8.064	7.971	8.171	464.110	500.000	-7.2
Aroclor-1260-5	8.381	8.288	8.488	450.140	500.000	-10.0
Decachlorobiphenyl	10.177	10.087	10.287	47.460	50.000	-5.1
Tetrachloro-m-xylene	4.489	4.394	4.594	46.400	50.000	-7.2

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL01 **Date Analyzed:** 06/27/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073315.D **Time Analyzed:** 09:13

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.862	4.768	4.968	449.750	500.000	-10.1
Aroclor-1016-2	4.879	4.786	4.986	462.170	500.000	-7.6
Aroclor-1016-3	5.055	4.962	5.162	463.070	500.000	-7.4
Aroclor-1016-4	5.097	5.004	5.204	461.810	500.000	-7.6
Aroclor-1016-5	5.310	5.218	5.418	469.570	500.000	-6.1
Aroclor-1260-1	6.340	6.249	6.449	465.970	500.000	-6.8
Aroclor-1260-2	6.529	6.438	6.638	468.650	500.000	-6.3
Aroclor-1260-3	6.681	6.589	6.789	458.070	500.000	-8.4
Aroclor-1260-4	7.151	7.060	7.260	465.450	500.000	-6.9
Aroclor-1260-5	7.393	7.302	7.502	457.350	500.000	-8.5
Decachlorobiphenyl	8.786	8.697	8.897	48.600	50.000	-2.8
Tetrachloro-m-xylene	3.783	3.688	3.888	44.930	50.000	-10.1

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/27/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 16:46 **Initial Calibration Time(s):** 10:04 20:10

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.64	5.65	5.55	5.75	0.01
Aroclor-1016-2	(2)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-3	(3)	5.73	5.73	5.63	5.83	0.01
Aroclor-1016-4	(4)	5.82	5.83	5.73	5.93	0.01
Aroclor-1016-5	(5)	6.11	6.12	6.02	6.22	0.01
Aroclor-1260-1	(1)	7.23	7.24	7.14	7.34	0.01
Aroclor-1260-2	(2)	7.49	7.49	7.39	7.59	0.00
Aroclor-1260-3	(3)	7.84	7.85	7.75	7.95	0.01
Aroclor-1260-4	(4)	8.07	8.07	7.97	8.17	0.00
Aroclor-1260-5	(5)	8.38	8.39	8.29	8.49	0.01
Tetrachloro-m-xylene		4.49	4.49	4.39	4.59	0.00
Decachlorobiphenyl		10.18	10.19	10.09	10.29	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/27/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 16:46 **Initial Calibration Time(s):** 10:04 20:10

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	4.87	4.77	4.97	0.01
Aroclor-1016-2	(2)	4.88	4.89	4.79	4.99	0.01
Aroclor-1016-3	(3)	5.06	5.06	4.96	5.16	0.00
Aroclor-1016-4	(4)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-5	(5)	5.31	5.32	5.22	5.42	0.01
Aroclor-1260-1	(1)	6.34	6.35	6.25	6.45	0.01
Aroclor-1260-2	(2)	6.53	6.54	6.44	6.64	0.01
Aroclor-1260-3	(3)	6.68	6.69	6.59	6.79	0.01
Aroclor-1260-4	(4)	7.15	7.16	7.06	7.26	0.01
Aroclor-1260-5	(5)	7.40	7.40	7.30	7.50	0.01
Tetrachloro-m-xylene		3.78	3.79	3.69	3.89	0.01
Decachlorobiphenyl		8.79	8.80	8.70	8.90	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL02 **Date Analyzed:** 06/27/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073329.D **Time Analyzed:** 16:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.642	5.546	5.746	409.590	500.000	-18.1
Aroclor-1016-2	5.663	5.567	5.767	441.080	500.000	-11.8
Aroclor-1016-3	5.725	5.629	5.829	420.560	500.000	-15.9
Aroclor-1016-4	5.822	5.727	5.927	441.350	500.000	-11.7
Aroclor-1016-5	6.114	6.019	6.219	429.890	500.000	-14.0
Aroclor-1260-1	7.230	7.136	7.336	455.300	500.000	-8.9
Aroclor-1260-2	7.485	7.389	7.589	452.950	500.000	-9.4
Aroclor-1260-3	7.842	7.747	7.947	431.750	500.000	-13.7
Aroclor-1260-4	8.066	7.971	8.171	421.940	500.000	-15.6
Aroclor-1260-5	8.383	8.288	8.488	416.460	500.000	-16.7
Decachlorobiphenyl	10.179	10.087	10.287	44.090	50.000	-11.8
Tetrachloro-m-xylene	4.490	4.394	4.594	42.330	50.000	-15.3

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL02 **Date Analyzed:** 06/27/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073329.D **Time Analyzed:** 16:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.863	4.768	4.968	412.820	500.000	-17.4
Aroclor-1016-2	4.881	4.786	4.986	411.940	500.000	-17.6
Aroclor-1016-3	5.057	4.962	5.162	406.130	500.000	-18.8
Aroclor-1016-4	5.099	5.004	5.204	405.400	500.000	-18.9
Aroclor-1016-5	5.312	5.218	5.418	418.410	500.000	-16.3
Aroclor-1260-1	6.343	6.249	6.449	412.060	500.000	-17.6
Aroclor-1260-2	6.531	6.438	6.638	425.960	500.000	-14.8
Aroclor-1260-3	6.683	6.589	6.789	408.460	500.000	-18.3
Aroclor-1260-4	7.153	7.060	7.260	416.930	500.000	-16.6
Aroclor-1260-5	7.395	7.302	7.502	411.320	500.000	-17.7
Decachlorobiphenyl	8.788	8.697	8.897	43.670	50.000	-12.7
Tetrachloro-m-xylene	3.784	3.688	3.888	41.990	50.000	-16.0

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/27/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 22:13 **Initial Calibration Time(s):** 10:04 20:10

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.64	5.65	5.55	5.75	0.01
Aroclor-1016-2	(2)	5.66	5.67	5.57	5.77	0.01
Aroclor-1016-3	(3)	5.72	5.73	5.63	5.83	0.01
Aroclor-1016-4	(4)	5.82	5.83	5.73	5.93	0.01
Aroclor-1016-5	(5)	6.11	6.12	6.02	6.22	0.01
Aroclor-1260-1	(1)	7.23	7.24	7.14	7.34	0.01
Aroclor-1260-2	(2)	7.48	7.49	7.39	7.59	0.01
Aroclor-1260-3	(3)	7.84	7.85	7.75	7.95	0.01
Aroclor-1260-4	(4)	8.06	8.07	7.97	8.17	0.01
Aroclor-1260-5	(5)	8.38	8.39	8.29	8.49	0.01
Tetrachloro-m-xylene		4.49	4.49	4.39	4.59	0.00
Decachlorobiphenyl		10.17	10.19	10.09	10.29	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

Continuing Calib Date: 06/27/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

Continuing Calib Time: 22:13 **Initial Calibration Time(s):** 10:04 20:10

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	4.87	4.77	4.97	0.01
Aroclor-1016-2	(2)	4.88	4.89	4.79	4.99	0.01
Aroclor-1016-3	(3)	5.06	5.06	4.96	5.16	0.00
Aroclor-1016-4	(4)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-5	(5)	5.31	5.32	5.22	5.42	0.01
Aroclor-1260-1	(1)	6.34	6.35	6.25	6.45	0.01
Aroclor-1260-2	(2)	6.53	6.54	6.44	6.64	0.01
Aroclor-1260-3	(3)	6.68	6.69	6.59	6.79	0.01
Aroclor-1260-4	(4)	7.15	7.16	7.06	7.26	0.01
Aroclor-1260-5	(5)	7.39	7.40	7.30	7.50	0.01
Tetrachloro-m-xylene		3.78	3.79	3.69	3.89	0.01
Decachlorobiphenyl		8.79	8.80	8.70	8.90	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL03 **Date Analyzed:** 06/27/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073345.D **Time Analyzed:** 22:13

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.638	5.546	5.746	432.490	500.000	-13.5
Aroclor-1016-2	5.659	5.567	5.767	460.330	500.000	-7.9
Aroclor-1016-3	5.721	5.629	5.829	456.640	500.000	-8.7
Aroclor-1016-4	5.818	5.727	5.927	479.780	500.000	-4.0
Aroclor-1016-5	6.110	6.019	6.219	451.140	500.000	-9.8
Aroclor-1260-1	7.227	7.136	7.336	472.570	500.000	-5.5
Aroclor-1260-2	7.480	7.389	7.589	452.070	500.000	-9.6
Aroclor-1260-3	7.838	7.747	7.947	442.770	500.000	-11.4
Aroclor-1260-4	8.062	7.971	8.171	443.420	500.000	-11.3
Aroclor-1260-5	8.380	8.288	8.488	435.790	500.000	-12.8
Decachlorobiphenyl	10.174	10.087	10.287	45.500	50.000	-9.0
Tetrachloro-m-xylene	4.487	4.394	4.594	43.270	50.000	-13.5

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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2436 **SAS No.:** Q2436 **SDG NO.:** Q2436

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

Client Sample No.: CCAL03 **Date Analyzed:** 06/27/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP073345.D **Time Analyzed:** 22:13

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.862	4.768	4.968	446.220	500.000	-10.8
Aroclor-1016-2	4.880	4.786	4.986	449.690	500.000	-10.1
Aroclor-1016-3	5.056	4.962	5.162	449.220	500.000	-10.2
Aroclor-1016-4	5.098	5.004	5.204	450.630	500.000	-9.9
Aroclor-1016-5	5.311	5.218	5.418	464.140	500.000	-7.2
Aroclor-1260-1	6.341	6.249	6.449	464.610	500.000	-7.1
Aroclor-1260-2	6.529	6.438	6.638	475.500	500.000	-4.9
Aroclor-1260-3	6.681	6.589	6.789	462.110	500.000	-7.6
Aroclor-1260-4	7.151	7.060	7.260	462.150	500.000	-7.6
Aroclor-1260-5	7.393	7.302	7.502	465.070	500.000	-7.0
Decachlorobiphenyl	8.786	8.697	8.897	50.420	50.000	0.8
Tetrachloro-m-xylene	3.783	3.688	3.888	44.590	50.000	-10.8

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2436

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

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:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	06/17/2025	09:47	PP072990.D	10.19	4.49
AR1660ICC1000	AR1660ICC1000	06/17/2025	10:04	PP072991.D	10.19	4.49
AR1660ICC750	AR1660ICC750	06/17/2025	10:20	PP072992.D	10.19	4.49
AR1660ICC500	AR1660ICC500	06/17/2025	10:37	PP072993.D	10.19	4.49
AR1660ICC250	AR1660ICC250	06/17/2025	10:53	PP072994.D	10.19	4.49
AR1660ICC050	AR1660ICC050	06/17/2025	11:43	PP072995.D	10.19	4.50
AR1221ICC500	AR1221ICC500	06/17/2025	12:00	PP072996.D	10.18	4.49
AR1232ICC500	AR1232ICC500	06/17/2025	12:16	PP072997.D	10.19	4.50
AR1242ICC1000	AR1242ICC1000	06/17/2025	14:27	PP072998.D	10.19	4.49
AR1242ICC750	AR1242ICC750	06/17/2025	14:43	PP072999.D	10.19	4.49
AR1242ICC500	AR1242ICC500	06/17/2025	15:00	PP073000.D	10.19	4.49
AR1242ICC250	AR1242ICC250	06/17/2025	15:16	PP073001.D	10.19	4.49
AR1242ICC050	AR1242ICC050	06/17/2025	15:32	PP073002.D	10.18	4.49
AR1248ICC1000	AR1248ICC1000	06/17/2025	15:49	PP073003.D	10.19	4.49
AR1248ICC750	AR1248ICC750	06/17/2025	16:21	PP073004.D	10.19	4.49
AR1248ICC500	AR1248ICC500	06/17/2025	16:37	PP073005.D	10.19	4.49
AR1248ICC250	AR1248ICC250	06/17/2025	16:54	PP073006.D	10.19	4.49
AR1248ICC050	AR1248ICC050	06/17/2025	17:10	PP073007.D	10.18	4.49
AR1254ICC1000	AR1254ICC1000	06/17/2025	17:26	PP073008.D	10.19	4.49
AR1254ICC750	AR1254ICC750	06/17/2025	17:43	PP073009.D	10.19	4.49
AR1254ICC500	AR1254ICC500	06/17/2025	17:59	PP073010.D	10.19	4.49
AR1254ICC250	AR1254ICC250	06/17/2025	18:15	PP073011.D	10.19	4.49
AR1254ICC050	AR1254ICC050	06/17/2025	18:32	PP073012.D	10.19	4.49
AR1262ICC500	AR1262ICC500	06/17/2025	18:48	PP073013.D	10.19	4.49
AR1268ICC1000	AR1268ICC1000	06/17/2025	19:04	PP073014.D	10.19	4.49
AR1268ICC750	AR1268ICC750	06/17/2025	19:21	PP073015.D	10.18	4.49
AR1268ICC500	AR1268ICC500	06/17/2025	19:37	PP073016.D	10.18	4.49
AR1268ICC250	AR1268ICC250	06/17/2025	19:53	PP073017.D	10.19	4.50
AR1268ICC050	AR1268ICC050	06/17/2025	20:10	PP073018.D	10.18	4.49
AR1660CCC500	AR1660CCC500	06/27/2025	09:13	PP073315.D	10.18	4.49
I.BLK	I.BLK	06/27/2025	10:35	PP073320.D	10.18	4.49
PB168636BL	PB168636BL	06/27/2025	14:20	PP073323.D	10.18	4.49
PB168636BS	PB168636BS	06/27/2025	14:36	PP073324.D	10.18	4.49
MH-E/FMS	Q2430-01MS	06/27/2025	15:25	PP073327.D	10.18	4.49
MH-E/FMSD	Q2430-01MSD	06/27/2025	15:41	PP073328.D	10.18	4.49
AR1660CCC500	AR1660CCC500	06/27/2025	16:46	PP073329.D	10.18	4.49
I.BLK	I.BLK	06/27/2025	18:24	PP073334.D	10.17	4.49
TP-70	Q2436-01	06/27/2025	18:41	PP073335.D	10.18	4.49
TP-69	Q2436-02	06/27/2025	18:57	PP073336.D	10.18	4.49
TP-85	Q2436-03	06/27/2025	19:13	PP073337.D	10.18	4.49
TP-86	Q2436-04	06/27/2025	19:29	PP073338.D	10.17	4.49
TP-84	Q2436-05	06/27/2025	19:46	PP073339.D	10.18	4.49

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Analytical Sequence

TP-83	Q2436-06	06/27/2025	20:02	PP073340.D	10.17	4.49
TP-87	Q2436-07	06/27/2025	20:18	PP073341.D	10.17	4.49
TP-100	Q2436-08	06/27/2025	20:35	PP073342.D	10.17	4.49
TP-99	Q2436-09	06/27/2025	20:51	PP073343.D	10.18	4.49
TP-82	Q2436-10	06/27/2025	21:07	PP073344.D	10.17	4.49
AR1660CCC500	AR1660CCC500	06/27/2025	22:13	PP073345.D	10.17	4.49
I.BLK	I.BLK	06/27/2025	23:51	PP073350.D	10.18	4.49

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2436

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

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:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	06/17/2025	09:47	PP072990.D	8.80	3.79
AR1660ICC1000	AR1660ICC1000	06/17/2025	10:04	PP072991.D	8.80	3.79
AR1660ICC750	AR1660ICC750	06/17/2025	10:20	PP072992.D	8.80	3.79
AR1660ICC500	AR1660ICC500	06/17/2025	10:37	PP072993.D	8.80	3.79
AR1660ICC250	AR1660ICC250	06/17/2025	10:53	PP072994.D	8.80	3.79
AR1660ICC050	AR1660ICC050	06/17/2025	11:43	PP072995.D	8.80	3.79
AR1221ICC500	AR1221ICC500	06/17/2025	12:00	PP072996.D	8.80	3.79
AR1232ICC500	AR1232ICC500	06/17/2025	12:16	PP072997.D	8.80	3.79
AR1242ICC1000	AR1242ICC1000	06/17/2025	14:27	PP072998.D	8.80	3.79
AR1242ICC750	AR1242ICC750	06/17/2025	14:43	PP072999.D	8.80	3.79
AR1242ICC500	AR1242ICC500	06/17/2025	15:00	PP073000.D	8.80	3.79
AR1242ICC250	AR1242ICC250	06/17/2025	15:16	PP073001.D	8.80	3.79
AR1242ICC050	AR1242ICC050	06/17/2025	15:32	PP073002.D	8.80	3.79
AR1248ICC1000	AR1248ICC1000	06/17/2025	15:49	PP073003.D	8.80	3.79
AR1248ICC750	AR1248ICC750	06/17/2025	16:21	PP073004.D	8.80	3.79
AR1248ICC500	AR1248ICC500	06/17/2025	16:37	PP073005.D	8.80	3.79
AR1248ICC250	AR1248ICC250	06/17/2025	16:54	PP073006.D	8.80	3.79
AR1248ICC050	AR1248ICC050	06/17/2025	17:10	PP073007.D	8.80	3.79
AR1254ICC1000	AR1254ICC1000	06/17/2025	17:26	PP073008.D	8.80	3.79
AR1254ICC750	AR1254ICC750	06/17/2025	17:43	PP073009.D	8.80	3.79
AR1254ICC500	AR1254ICC500	06/17/2025	17:59	PP073010.D	8.80	3.79
AR1254ICC250	AR1254ICC250	06/17/2025	18:15	PP073011.D	8.80	3.79
AR1254ICC050	AR1254ICC050	06/17/2025	18:32	PP073012.D	8.80	3.79
AR1262ICC500	AR1262ICC500	06/17/2025	18:48	PP073013.D	8.80	3.79
AR1268ICC1000	AR1268ICC1000	06/17/2025	19:04	PP073014.D	8.80	3.79
AR1268ICC750	AR1268ICC750	06/17/2025	19:21	PP073015.D	8.80	3.79
AR1268ICC500	AR1268ICC500	06/17/2025	19:37	PP073016.D	8.80	3.79
AR1268ICC250	AR1268ICC250	06/17/2025	19:53	PP073017.D	8.80	3.79
AR1268ICC050	AR1268ICC050	06/17/2025	20:10	PP073018.D	8.80	3.79
AR1660CCC500	AR1660CCC500	06/27/2025	09:13	PP073315.D	8.79	3.78
I.BLK	I.BLK	06/27/2025	10:35	PP073320.D	8.79	3.78
PB168636BL	PB168636BL	06/27/2025	14:20	PP073323.D	8.79	3.78
PB168636BS	PB168636BS	06/27/2025	14:36	PP073324.D	8.79	3.78
MH-E/FMS	Q2430-01MS	06/27/2025	15:25	PP073327.D	8.79	3.78
MH-E/FMSD	Q2430-01MSD	06/27/2025	15:41	PP073328.D	8.79	3.78
AR1660CCC500	AR1660CCC500	06/27/2025	16:46	PP073329.D	8.79	3.78
I.BLK	I.BLK	06/27/2025	18:24	PP073334.D	8.79	3.78
TP-70	Q2436-01	06/27/2025	18:41	PP073335.D	8.79	3.78
TP-69	Q2436-02	06/27/2025	18:57	PP073336.D	8.79	3.78
TP-85	Q2436-03	06/27/2025	19:13	PP073337.D	8.79	3.78
TP-86	Q2436-04	06/27/2025	19:29	PP073338.D	8.79	3.78
TP-84	Q2436-05	06/27/2025	19:46	PP073339.D	8.79	3.78

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Analytical Sequence

TP-83	Q2436-06	06/27/2025	20:02	PP073340.D	8.79	3.78
TP-87	Q2436-07	06/27/2025	20:18	PP073341.D	8.79	3.78
TP-100	Q2436-08	06/27/2025	20:35	PP073342.D	8.79	3.78
TP-99	Q2436-09	06/27/2025	20:51	PP073343.D	8.79	3.78
TP-82	Q2436-10	06/27/2025	21:07	PP073344.D	8.79	3.78
AR1660CCC500	AR1660CCC500	06/27/2025	22:13	PP073345.D	8.79	3.78
I.BLK	I.BLK	06/27/2025	23:51	PP073350.D	8.79	3.78

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168636BL	SDG No.:	Q2436
Lab Sample ID:	PB168636BL	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073323.D	1	06/27/25 09:00	06/27/25 14:20	PB168636

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	19.6		32 - 175	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/17/25
Project:	South River WM Replacement	Date Received:	06/17/25
Client Sample ID:	PIBLK-PP072990.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PP072990.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP072990.D	1		06/17/25	pp061725

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	17.3		60 - 140	86%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.2		60 - 140	86%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	PIBLK-PP073320.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PP073320.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073320.D	1		06/27/25	PP062725

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	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.0		60 - 140	95%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	PIBLK-PP073334.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PP073334.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073334.D	1		06/27/25	pp062725

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	17.0		60 - 140	85%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.3		60 - 140	87%	SPK: 20

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	PIBLK-PP073350.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PP073350.D	Matrix:	WATER
Analytical Method:	8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073350.D	1		06/27/25	pp062725

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	17.4		60 - 140	87%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.8		60 - 140	89%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168636BS	SDG No.:	Q2436
Lab Sample ID:	PB168636BS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073324.D	1	06/27/25 09:00	06/27/25 14:36	PB168636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	156		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	146		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.2		32 - 144	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.3		32 - 175	101%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	MH-E/FMS	SDG No.:	Q2436
Lab Sample ID:	Q2430-01MS	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	88.2 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073327.D	1	06/27/25 09:00	06/27/25 15:25	PB168636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	174		4.50	19.2	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.2	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.2	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	19.2	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.2	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.2	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.2	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.2	ug/kg
11096-82-5	Aroclor-1260	161		3.70	19.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.0		32 - 144	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.1		32 - 175	100%	SPK: 20

Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	MH-E/FMSD	SDG No.:	Q2436
Lab Sample ID:	Q2430-01MSD	Matrix:	SOIL
Analytical Method:	8082A	% Solid:	88.2 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP073328.D	1	06/27/25 09:00	06/27/25 15:41	PB168636

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	176		4.50	19.2	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.2	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.2	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	19.2	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.2	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	19.2	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.2	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.2	ug/kg
11096-82-5	Aroclor-1260	162		3.70	19.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.6		32 - 144	98%	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

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LAB CHRONICLE

OrderID:	Q2436	**OrderDate:**	6/26/2025 3:41:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2436-01	**TP-70**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			Herbicide	8151A		07/01/25	07/02/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-02	**TP-69**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			Herbicide	8151A		07/01/25	07/02/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-03	**TP-85**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			Herbicide	8151A		07/01/25	07/02/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-04	**TP-86**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/30/25	
			Herbicide	8151A		07/01/25	07/02/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-05	**TP-84**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	

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LAB CHRONICLE

			Herbicide	8151A		07/01/25	07/02/25
			PCB	8082A		06/27/25	06/27/25
			Pesticide-TCL	8081B		06/27/25	06/28/25
Q2436-06	**TP-83**	**SOIL**			**06/25/25**		**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25
			Gasoline Range Organics	8015D			06/27/25
			Herbicide	8151A		07/01/25	07/02/25
			PCB	8082A		06/27/25	06/27/25
			Pesticide-TCL	8081B		06/27/25	06/28/25
Q2436-07	**TP-87**	**SOIL**			**06/26/25**		**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25
			Gasoline Range Organics	8015D			06/30/25
			Herbicide	8151A		07/01/25	07/02/25
			PCB	8082A		06/27/25	06/27/25
			Pesticide-TCL	8081B		06/27/25	06/28/25
Q2436-08	**TP-100**	**SOIL**			**06/26/25**		**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25
			Gasoline Range Organics	8015D			06/27/25
			Herbicide	8151A		07/01/25	07/02/25
			PCB	8082A		06/27/25	06/27/25
			Pesticide-TCL	8081B		06/27/25	06/28/25
Q2436-09	**TP-99**	**SOIL**			**06/26/25**		**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25
			Gasoline Range Organics	8015D			06/27/25
			Herbicide	8151A		07/01/25	07/02/25
			PCB	8082A		06/27/25	06/27/25
			Pesticide-TCL	8081B		06/27/25	06/28/25
Q2436-10	**TP-82**	**SOIL**			**06/26/25**		**06/26/25**
			Diesel Range Organics	8015D		06/30/25	07/01/25
			Gasoline Range Organics	8015D			06/30/25
			Herbicide	8151A		07/01/25	07/02/25
			PCB	8082A		06/27/25	06/27/25
			Pesticide-TCL	8081B		06/27/25	06/28/25

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Hit Summary Sheet
SW-846

SDG No.: Q2436 **Order ID:** Q2436

Client: CDM Smith **Project ID:** South River WM Replacement

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

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith		Date Collected:	06/25/25	
Project:	South River WM Replacement		Date Received:	06/26/25	
Client Sample ID:	TP-70		SDG No.:	Q2436	
Lab Sample ID:	Q2436-01		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	82.1	Decanted:
Sample Wt/Vol:	30.07	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030884.D	1	07/01/25 10:00	07/02/25 11:09	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.40	U	9.40	81.4	ug/Kg
120-36-5	DICHLORPROP	15.6	U	15.6	81.4	ug/Kg
94-75-7	2,4-D	11.0	U	11.0	81.4	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.0	U	11.0	81.4	ug/Kg
93-76-5	2,4,5-T	10.6	U	10.6	81.4	ug/Kg
94-82-6	2,4-DB	29.4	U	29.4	81.4	ug/Kg
88-85-7	DINOSEB	13.1	U	13.1	81.4	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	324		10 - 141	65%	SPK: 500

Comments:

U = Not Detected
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith		Date Collected:	06/25/25	
Project:	South River WM Replacement		Date Received:	06/26/25	
Client Sample ID:	TP-69		SDG No.:	Q2436	
Lab Sample ID:	Q2436-02		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	82	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
PS030885.D	1	07/01/25 10:00	07/02/25 11:33	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.40	U	9.40	81.5	ug/Kg
120-36-5	DICHLORPROP	15.6	U	15.6	81.5	ug/Kg
94-75-7	2,4-D	11.0	U	11.0	81.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.0	U	11.0	81.5	ug/Kg
93-76-5	2,4,5-T	10.6	U	10.6	81.5	ug/Kg
94-82-6	2,4-DB	29.5	U	29.5	81.5	ug/Kg
88-85-7	DINOSEB	13.1	U	13.1	81.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	250		10 - 141	50%	SPK: 500

Comments:

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	85.1 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030886.D	1	07/01/25 10:00	07/02/25 11:57	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.10	U	9.10	78.5	ug/Kg
120-36-5	DICHLORPROP	15.0	U	15.0	78.5	ug/Kg
94-75-7	2,4-D	10.6	U	10.6	78.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.6	U	10.6	78.5	ug/Kg
93-76-5	2,4,5-T	10.2	U	10.2	78.5	ug/Kg
94-82-6	2,4-DB	28.4	U	28.4	78.5	ug/Kg
88-85-7	DINOSEB	12.7	U	12.7	78.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	252		10 - 141	50%	SPK: 500

Comments:

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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	88.7 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030887.D	1	07/01/25 10:00	07/02/25 12:22	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.70	U	8.70	75.4	ug/Kg
120-36-5	DICHLORPROP	14.4	U	14.4	75.4	ug/Kg
94-75-7	2,4-D	10.2	U	10.2	75.4	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.2	U	10.2	75.4	ug/Kg
93-76-5	2,4,5-T	9.80	U	9.80	75.4	ug/Kg
94-82-6	2,4-DB	27.2	U	27.2	75.4	ug/Kg
88-85-7	DINOSEB	12.2	U	12.2	75.4	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	326		10 - 141	65%	SPK: 500

Comments:

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B = Analyte Found in Associated Method Blank
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	92.3 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030888.D	1	07/01/25 10:00	07/02/25 12:46	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.40	U	8.40	72.4	ug/Kg
120-36-5	DICHLORPROP	13.8	U	13.8	72.4	ug/Kg
94-75-7	2,4-D	9.80	U	9.80	72.4	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.80	U	9.80	72.4	ug/Kg
93-76-5	2,4,5-T	9.40	U	9.40	72.4	ug/Kg
94-82-6	2,4-DB	26.1	U	26.1	72.4	ug/Kg
88-85-7	DINOSEB	11.7	U	11.7	72.4	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	400		10 - 141	80%	SPK: 500

Comments:

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M = MS/MSD acceptance criteria did not meet requirements

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030889.D	1	07/01/25 10:00	07/02/25 13:10	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.50	U	8.50	73.8	ug/Kg
120-36-5	DICHLORPROP	14.1	U	14.1	73.8	ug/Kg
94-75-7	2,4-D	10.0	U	10.0	73.8	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.0	U	10.0	73.8	ug/Kg
93-76-5	2,4,5-T	9.60	U	9.60	73.8	ug/Kg
94-82-6	2,4-DB	26.7	U	26.7	73.8	ug/Kg
88-85-7	DINOSEB	11.9	U	11.9	73.8	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	459		10 - 141	92%	SPK: 500

Comments:

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M = MS/MSD acceptance criteria did not meet requirements

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	89.9 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
PS030890.D	1	07/01/25 10:00	07/02/25 13:34	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.60	U	8.60	74.5	ug/Kg
120-36-5	DICHLORPROP	14.2	U	14.2	74.5	ug/Kg
94-75-7	2,4-D	10.0	U	10.0	74.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.1	U	10.1	74.5	ug/Kg
93-76-5	2,4,5-T	9.70	U	9.70	74.5	ug/Kg
94-82-6	2,4-DB	26.9	U	26.9	74.5	ug/Kg
88-85-7	DINOSEB	12.0	U	12.0	74.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	405		10 - 141	81%	SPK: 500

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Report of Analysis

Client:	CDM Smith		Date Collected:	06/26/25	
Project:	South River WM Replacement		Date Received:	06/26/25	
Client Sample ID:	TP-100		SDG No.:	Q2436	
Lab Sample ID:	Q2436-08		Matrix:	SOIL	
Analytical Method:	8151A		% Solid:	85.6	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	8151A				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030891.D	1	07/01/25 10:00	07/02/25 13:58	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.00	U	9.00	78.2	ug/Kg
120-36-5	DICHLORPROP	14.9	U	14.9	78.2	ug/Kg
94-75-7	2,4-D	10.6	U	10.6	78.2	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.6	U	10.6	78.2	ug/Kg
93-76-5	2,4,5-T	10.2	U	10.2	78.2	ug/Kg
94-82-6	2,4-DB	28.3	U	28.3	78.2	ug/Kg
88-85-7	DINOSEB	12.6	U	12.6	78.2	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	308		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

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

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	92.2 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030894.D	1	07/01/25 10:00	07/02/25 15:11	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.40	U	8.40	72.6	ug/Kg
120-36-5	DICHLORPROP	13.9	U	13.9	72.6	ug/Kg
94-75-7	2,4-D	9.80	U	9.80	72.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.80	U	9.80	72.6	ug/Kg
93-76-5	2,4,5-T	9.40	U	9.40	72.6	ug/Kg
94-82-6	2,4-DB	26.2	U	26.2	72.6	ug/Kg
88-85-7	DINOSEB	11.7	U	11.7	72.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	176		10 - 141	35%	SPK: 500

Comments:

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

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

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Fax : 908 789 8922

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	92 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
PS030895.D	1	07/01/25 10:00	07/02/25 15:35	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.40	U	8.40	72.7	ug/Kg
120-36-5	DICHLORPROP	13.9	U	13.9	72.7	ug/Kg
94-75-7	2,4-D	9.80	U	9.80	72.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.80	U	9.80	72.7	ug/Kg
93-76-5	2,4,5-T	9.40	U	9.40	72.7	ug/Kg
94-82-6	2,4-DB	26.3	U	26.3	72.7	ug/Kg
88-85-7	DINOSEB	11.7	U	11.7	72.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	246		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

QC SUMMARY

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Surrogate Summary

SDG No.: Q2436

Client: CDM Smith

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%) Low	Limits(%) High
I.BLK-PS030738.D	PIBLK-PS030738.D	2,4-DCAA	1	500	414	83		61	136
		2,4-DCAA	2	500	487	97		61	136
I.BLK-PS030880.D	PIBLK-PS030880.D	2,4-DCAA	1	500	500	100		61	136
		2,4-DCAA	2	500	524	105		61	136
PB168675BL	PB168675BL	2,4-DCAA	1	500	320	64		10	141
		2,4-DCAA	2	500	407	81		10	141
PB168675BS	PB168675BS	2,4-DCAA	1	500	511	102		10	141
		2,4-DCAA	2	500	494	99		10	141
Q2436-01	TP-70	2,4-DCAA	1	500	289	58		10	141
		2,4-DCAA	2	500	324	65		10	141
Q2436-02	TP-69	2,4-DCAA	1	500	226	45		10	141
		2,4-DCAA	2	500	250	50		10	141
Q2436-03	TP-85	2,4-DCAA	1	500	228	46		10	141
		2,4-DCAA	2	500	252	50		10	141
Q2436-04	TP-86	2,4-DCAA	1	500	283	57		10	141
		2,4-DCAA	2	500	326	65		10	141
Q2436-05	TP-84	2,4-DCAA	1	500	366	73		10	141
		2,4-DCAA	2	500	400	80		10	141
Q2436-06	TP-83	2,4-DCAA	1	500	338	68		10	141
		2,4-DCAA	2	500	459	92		10	141
Q2436-07	TP-87	2,4-DCAA	1	500	349	70		10	141
		2,4-DCAA	2	500	405	81		10	141
Q2436-08	TP-100	2,4-DCAA	1	500	267	53		10	141
		2,4-DCAA	2	500	308	62		10	141
I.BLK-PS030892.D	PIBLK-PS030892.D	2,4-DCAA	1	500	498	100		61	136
		2,4-DCAA	2	500	517	103		61	136
Q2436-09	TP-99	2,4-DCAA	1	500	152	30		10	141
		2,4-DCAA	2	500	176	35		10	141
Q2436-10	TP-82	2,4-DCAA	1	500	215	43		10	141
		2,4-DCAA	2	500	246	49		10	141
Q2436-10MS	TP-82MS	2,4-DCAA	1	500	291	58		10	141
		2,4-DCAA	2	500	328	66		10	141
Q2436-10MSD	TP-82MSD	2,4-DCAA	1	500	317	63		10	141
		2,4-DCAA	2	500	321	64		10	141
I.BLK-PS030898.D	PIBLK-PS030898.D	2,4-DCAA	1	500	507	101		61	136
		2,4-DCAA	2	500	528	106		61	136

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2436 **Analytical Method:** 8151A

Client: CDM Smith **DataFile :** PS030896.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2436-10MS (Column 1)**	**Client Sample ID:**		**TP-82MS**								
	DICAMBA	181	0	68.4	ug/Kg	38				10	112	
	DICHLORPROP	181	0	121	ug/Kg	67				10	113	
	2,4-D	181	0	132	ug/Kg	73				10	144	
	2,4,5-TP(Silvex)	181	0	119	ug/Kg	66				10	114	
	2,4,5-T	181	0	120	ug/Kg	66				10	115	
	2,4-DB	181	0	108	ug/Kg	60				10	140	
	Dinoseb	181	0	0	ug/Kg	0	*			10	118	
Lab Sample ID:	**Q2436-10MS (Column 2)**	**Client Sample ID:**		**TP-82MS**								
	DICAMBA	181	0	66.4	ug/Kg	37				10	112	
	DICHLORPROP	181	0	124	ug/Kg	69				10	113	
	2,4-D	181	0	125	ug/Kg	69				10	144	
	2,4,5-TP(Silvex)	181	0	117	ug/Kg	65				10	114	
	2,4,5-T	181	0	115	ug/Kg	64				10	115	
	2,4-DB	181	0	116	ug/Kg	64				10	140	
	Dinoseb	181	0	0	ug/Kg	0	*			10	118	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2436 **Analytical Method:** 8151A

Client: CDM Smith **DataFile :** PS030897.D

	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID:	**Q2436-10MSD (Column 1)**	**Client Sample ID:**		**TP-82MSD**								
	DICAMBA	180.9	0	66.8	ug/Kg	37		3		10	112	20
	DICHLORPROP	180.9	0	120	ug/Kg	66		2		10	113	20
	2,4-D	180.9	0	128	ug/Kg	71		3		10	144	20
	2,4,5-TP(Silvex)	180.9	0	118	ug/Kg	65		2		10	114	20
	2,4,5-T	180.9	0	116	ug/Kg	64		3		10	115	20
	2,4-DB	180.9	0	107	ug/Kg	59		2		10	140	20
	Dinoseb	180.9	0	0	ug/Kg	0	*	0		10	118	20
Lab Sample ID:	**Q2436-10MSD (Column 2)**	**Client Sample ID:**		**TP-82MSD**								
	DICAMBA	180.9	0	64.9	ug/Kg	36		3		10	112	20
	DICHLORPROP	180.9	0	108	ug/Kg	60		14		10	113	20
	2,4-D	180.9	0	123	ug/Kg	68		1		10	144	20
	2,4,5-TP(Silvex)	180.9	0	115	ug/Kg	64		2		10	114	20
	2,4,5-T	180.9	0	113	ug/Kg	62		3		10	115	20
	2,4-DB	180.9	0	114	ug/Kg	63		2		10	140	20
	Dinoseb	180.9	0	0	ug/Kg	0	*	0		10	118	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2436 **Analytical Method:** 8151A

Client: CDM Smith **Datafile :** PS030883.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168675BS (Column 1)	DICAMBA	166.5	161	ug/Kg	97				72	129	
	DICHLORPROP	166.5	157	ug/Kg	94				77	135	
	2,4-D	166.5	160	ug/Kg	96				65	144	
	2,4,5-TP(Silvex)	166.5	169	ug/Kg	102				74	146	
	2,4,5-T	166.5	173	ug/Kg	104				77	134	
	2,4-DB	166.5	180	ug/Kg	108				72	122	
	Dinoseb	166.5	165	ug/Kg	99				74	132	
PB168675BS (Column 2)	DICAMBA	166.5	156	ug/Kg	94				72	129	
	DICHLORPROP	166.5	154	ug/Kg	92				77	135	
	2,4-D	166.5	151	ug/Kg	91				65	144	
	2,4,5-TP(Silvex)	166.5	160	ug/Kg	96				74	146	
	2,4,5-T	166.5	160	ug/Kg	96				77	134	
	2,4-DB	166.5	157	ug/Kg	94				72	122	
	Dinoseb	166.5	153	ug/Kg	92				74	132	

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168675BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2436

Lab Sample ID: PB168675BL | Lab File ID: PS030882.D

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

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/01/2025

Date Analyzed (1): 07/02/2025 | Date Analyzed (2): 07/02/2025

Time Analyzed (1): 10:21 | Time Analyzed (2): 10:21

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
PB168675BS	PB168675BS	PS030883.D	07/02/2025	07/02/2025
TP-70	Q2436-01	PS030884.D	07/02/2025	07/02/2025
TP-69	Q2436-02	PS030885.D	07/02/2025	07/02/2025
TP-85	Q2436-03	PS030886.D	07/02/2025	07/02/2025
TP-86	Q2436-04	PS030887.D	07/02/2025	07/02/2025
TP-84	Q2436-05	PS030888.D	07/02/2025	07/02/2025
TP-83	Q2436-06	PS030889.D	07/02/2025	07/02/2025
TP-87	Q2436-07	PS030890.D	07/02/2025	07/02/2025
TP-100	Q2436-08	PS030891.D	07/02/2025	07/02/2025
TP-99	Q2436-09	PS030894.D	07/02/2025	07/02/2025
TP-82	Q2436-10	PS030895.D	07/02/2025	07/02/2025
TP-82MS	Q2436-10MS	PS030896.D	07/02/2025	07/02/2025
TP-82MSD	Q2436-10MSD	PS030897.D	07/02/2025	07/02/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168675BL	SDG No.:	Q2436
Lab Sample ID:	PB168675BL	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030882.D	1	07/01/25 10:00	07/02/25 10:21	PB168675

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	407		10 - 141	81%	SPK: 500

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/18/25
Project:	South River WM Replacement	Date Received:	06/18/25
Client Sample ID:	PIBLK-PS030738.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PS030738.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030738.D	1		06/18/25	PS061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	487		61 - 136	97%	SPK: 500

Comments:

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PS030880.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PS030880.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030880.D	1		07/02/25	ps070225

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	524		61 - 136	105%	SPK: 500

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PS030892.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PS030892.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030892.D	1		07/02/25	ps070225

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	517		61 - 136	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PS030898.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-PS030898.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030898.D	1		07/02/25	ps070225

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	528		61 - 136	106%	SPK: 500

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168675BS	SDG No.:	Q2436
Lab Sample ID:	PB168675BS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030883.D	1	07/01/25 10:00	07/02/25 10:45	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	161		7.70	66.9	ug/Kg
120-36-5	DICHLORPROP	157		12.8	66.9	ug/Kg
94-75-7	2,4-D	160		9.00	66.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	169		9.10	66.9	ug/Kg
93-76-5	2,4,5-T	173		8.70	66.9	ug/Kg
94-82-6	2,4-DB	180		24.2	66.9	ug/Kg
88-85-7	DINOSEB	165		10.8	66.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	511		10 - 141	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82MS	SDG No.:	Q2436
Lab Sample ID:	Q2436-10MS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	92 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
PS030896.D	1	07/01/25 10:00	07/02/25 15:59	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	68.4	J	8.40	72.8	ug/Kg
120-36-5	DICHLORPROP	124		13.9	72.8	ug/Kg
94-75-7	2,4-D	132		9.80	72.8	ug/Kg
93-72-1	2,4,5-TP (Silvex)	119		9.80	72.8	ug/Kg
93-76-5	2,4,5-T	120		9.40	72.8	ug/Kg
94-82-6	2,4-DB	116		26.3	72.8	ug/Kg
88-85-7	DINOSEB	11.7	U	11.7	72.8	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	328		10 - 141	66%	SPK: 500

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82MSD	SDG No.:	Q2436
Lab Sample ID:	Q2436-10MSD	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	92 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030897.D	1	07/01/25 10:00	07/02/25 16:24	PB168675

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	66.8	J	8.40	72.7	ug/Kg
120-36-5	DICHLORPROP	120		13.9	72.7	ug/Kg
94-75-7	2,4-D	128		9.80	72.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	118		9.80	72.7	ug/Kg
93-76-5	2,4,5-T	116		9.40	72.7	ug/Kg
94-82-6	2,4-DB	114		26.3	72.7	ug/Kg
88-85-7	DINOSEB	11.7	U	11.7	72.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	321		10 - 141	64%	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

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S
Contract: CAMP02
SDG NO.: Q2436
Calibration Date(s): 06/18/2025 06/18/2025
Calibration Times: 11:25 13:29

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS030739.D RT 500 = PS030740.D
RT 750 = PS030741.D RT 1000 = PS030742.D RT 1500 = PS030743.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	9.67	9.67	9.67	9.67	9.67	9.67	9.57	9.77
2,4,5-TP(Silvex)	9.38	9.38	9.38	9.38	9.38	9.38	9.28	9.48
2,4-D	8.49	8.49	8.49	8.49	8.49	8.49	8.39	8.59
2,4-DB	10.25	10.25	10.25	10.25	10.25	10.25	10.15	10.35
2,4-DCAA	7.35	7.35	7.35	7.35	7.35	7.35	7.25	7.45
DICAMBA	7.54	7.54	7.54	7.54	7.54	7.54	7.44	7.64
DICHLORPROP	8.25	8.25	8.25	8.25	8.25	8.25	8.15	8.35
Dinoseb	11.47	11.47	11.47	11.47	11.47	11.47	11.37	11.57

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RETENTION TIMES OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_S
Contract: CAMP02
SDG NO.: Q2436
Calibration Date(s): 06/18/2025 06/18/2025
Calibration Times: 11:25 13:29

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS030739.D RT 500 = PS030740.D
RT 750 = PS030741.D RT 1000 = PS030742.D RT 1500 = PS030743.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-T	10.36	10.36	10.36	10.36	10.36	10.36	10.26	10.46
2,4,5-TP(Silvex)	9.93	9.93	9.93	9.93	9.93	9.93	9.83	10.03
2,4-D	9.03	9.03	9.03	9.03	9.03	9.03	8.93	9.13
2,4-DB	10.93	10.93	10.93	10.93	10.93	10.93	10.83	11.03
2,4-DCAA	7.77	7.77	7.77	7.77	7.77	7.77	7.67	7.87
DICAMBA	7.97	7.97	7.97	7.97	7.97	7.97	7.87	8.07
DICHLORPROP	8.69	8.69	8.69	8.69	8.69	8.69	8.59	8.79
Dinoseb	11.31	11.31	11.31	11.31	11.31	11.31	11.21	11.41

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CALIBRATION FACTOR OF INITIAL CALIBRATION

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

Contract: CAMP02
SDG NO.: Q2436
Calibration Date(s): 06/18/2025 06/18/2025
Calibration Times: 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID: CF 200 = PS030739.D CF 500 = PS030740.D
CF 750 = PS030741.D CF 1000 = PS030742.D CF 1500 = PS030743.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	17256700000	16680000000	16830000000	16187900000	15311000000	16453200000	5
2,4,5-TP(Silvex)	22282500000	20395400000	19977900000	18863900000	18632300000	20030400000	7
2,4-D	3868070000	3398090000	3305570000	3150720000	3499600000	3444410000	8
2,4-DB	2481600000	2363020000	2407410000	2376040000	1839440000	2293500000	11
2,4-DCAA	4451200000	3788090000	3593380000	3449860000	3089450000	3674390000	14
DICAMBA	17792700000	15914300000	15443300000	14605900000	12319200000	15215100000	13
DICHLORPROP	4637630000	3720970000	3496760000	3281660000	3591790000	3745760000	14
Dinoseb	15211800000	14001800000	13914000000	13244000000	12994300000	13873200000	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

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

Contract: CAMP02
SDG NO.: Q2436
Calibration Date(s): 06/18/2025 06/18/2025
Calibration Times: 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS030739.D **CF 500 =** PS030740.D
CF 750 = PS030741.D **CF 1000 =** PS030742.D **CF 1500 =** PS030743.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	15648900000	14018900000	13695900000	12933300000	12026100000	13664600000	10
2,4,5-TP(Silvex)	16493700000	14706300000	14316500000	13463300000	13163600000	14428700000	9
2,4-D	1965540000	1671750000	1622570000	1523690000	1713470000	1699410000	10
2,4-DB	1373320000	1199380000	1163600000	1108750000	1069470000	1182900000	10
2,4-DCAA	1283250000	1084080000	1050700000	993038000	948747000	1071960000	12
DICAMBA	7304970000	6653080000	6566460000	6277600000	5963960000	6553210000	8
DICHLORPROP	1855180000	1562920000	1498450000	1412800000	1533120000	1572500000	11
Dinoseb	12099400000	10862400000	10728600000	10218500000	9997410000	10781200000	8

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 09:56 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.66	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.45	11.47	11.37	11.57	0.02

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 09:56 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.03	9.03	8.93	9.13	0.01
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

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/02/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030881.D **Time Analyzed:** 09:56

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.655	9.568	9.768	755.240	712.500	6.0
2,4,5-TP(Silvex)	9.360	9.275	9.475	708.050	712.500	-0.6
2,4-D	8.474	8.386	8.586	682.290	705.000	-3.2
2,4-DB	10.232	10.147	10.347	812.680	712.500	14.1
2,4-DCAA	7.339	7.249	7.449	691.520	750.000	-7.8
DICAMBA	7.529	7.439	7.639	690.430	705.000	-2.1
DICHLORPROP	8.242	8.153	8.353	644.410	705.000	-8.6
Dinoseb	11.448	11.366	11.566	697.130	705.000	-1.1

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/02/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030881.D **Time Analyzed:** 09:56

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.356	10.259	10.459	675.040	712.500	-5.3
2,4,5-TP(Silvex)	9.930	9.833	10.033	667.540	712.500	-6.3
2,4-D	9.025	8.927	9.127	624.960	705.000	-11.4
2,4-DB	10.924	10.827	11.027	656.470	712.500	-7.9
2,4-DCAA	7.768	7.670	7.870	676.460	750.000	-9.8
DICAMBA	7.971	7.872	8.072	655.070	705.000	-7.1
DICHLORPROP	8.689	8.591	8.791	633.220	705.000	-10.2
Dinoseb	11.309	11.211	11.411	644.720	705.000	-8.6

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 14:47 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.66	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.45	11.47	11.37	11.57	0.02

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 14:47 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.03	9.03	8.93	9.13	0.01
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

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/02/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030893.D **Time Analyzed:** 14:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.655	9.568	9.768	765.480	712.500	7.4
2,4,5-TP(Silvex)	9.360	9.275	9.475	709.250	712.500	-0.5
2,4-D	8.473	8.386	8.586	688.390	705.000	-2.4
2,4-DB	10.233	10.147	10.347	807.800	712.500	13.4
2,4-DCAA	7.338	7.249	7.449	711.720	750.000	-5.1
DICAMBA	7.528	7.439	7.639	661.150	705.000	-6.2
DICHLORPROP	8.242	8.153	8.353	641.370	705.000	-9.0
Dinoseb	11.450	11.366	11.566	683.640	705.000	-3.0

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/02/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030893.D **Time Analyzed:** 14:47

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.356	10.259	10.459	682.460	712.500	-4.2
2,4,5-TP(Silvex)	9.931	9.833	10.033	669.160	712.500	-6.1
2,4-D	9.025	8.927	9.127	632.690	705.000	-10.3
2,4-DB	10.924	10.827	11.027	653.090	712.500	-8.3
2,4-DCAA	7.768	7.670	7.870	683.580	750.000	-8.9
DICAMBA	7.970	7.872	8.072	664.460	705.000	-5.8
DICHLORPROP	8.690	8.591	8.791	628.270	705.000	-10.9
Dinoseb	11.310	11.211	11.411	625.550	705.000	-11.3

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 17:17 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.53	7.54	7.44	7.64	0.01
2,4-DCAA	7.34	7.35	7.25	7.45	0.01
DICHLORPROP	8.24	8.25	8.15	8.35	0.01
2,4-D	8.47	8.49	8.39	8.59	0.02
2,4,5-TP(Silvex)	9.36	9.38	9.28	9.48	0.02
2,4,5-T	9.66	9.67	9.57	9.77	0.02
2,4-DB	10.23	10.25	10.15	10.35	0.02
Dinoseb	11.45	11.47	11.37	11.57	0.02

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

Continuing Calib Date: 07/02/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

Continuing Calib Time: 17:17 **Initial Calibration Time(s):** 11:25 13:29

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.03	8.93	9.13	0.01
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.36	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

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/02/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030899.D **Time Analyzed:** 17:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.655	9.568	9.768	769.470	712.500	8.0
2,4,5-TP(Silvex)	9.360	9.275	9.475	715.120	712.500	0.4
2,4-D	8.473	8.386	8.586	691.350	705.000	-1.9
2,4-DB	10.231	10.147	10.347	804.090	712.500	12.9
2,4-DCAA	7.339	7.249	7.449	709.980	750.000	-5.3
DICAMBA	7.528	7.439	7.639	692.000	705.000	-1.8
DICHLORPROP	8.241	8.153	8.353	647.910	705.000	-8.1
Dinoseb	11.449	11.366	11.566	707.210	705.000	0.3

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CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/02/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS030899.D **Time Analyzed:** 17:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.356	10.259	10.459	687.900	712.500	-3.5
2,4,5-TP(Silvex)	9.930	9.833	10.033	678.240	712.500	-4.8
2,4-D	9.024	8.927	9.127	640.000	705.000	-9.2
2,4-DB	10.923	10.827	11.027	660.360	712.500	-7.3
2,4-DCAA	7.767	7.670	7.870	686.620	750.000	-8.5
DICAMBA	7.970	7.872	8.072	667.720	705.000	-5.3
DICHLORPROP	8.689	8.591	8.791	643.660	705.000	-8.7
Dinoseb	11.308	11.211	11.411	657.150	705.000	-6.8

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2436

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

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/18/2025 06/18/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	06/18/2025	11:01	PS030738.D	7.35	0.00
HSTDICC200	HSTDICC200	06/18/2025	11:25	PS030739.D	7.35	0.00
HSTDICC500	HSTDICC500	06/18/2025	11:49	PS030740.D	7.35	0.00
HSTDICC750	HSTDICC750	06/18/2025	12:13	PS030741.D	7.35	0.00
HSTDICC1000	HSTDICC1000	06/18/2025	12:37	PS030742.D	7.35	0.00
HSTDICC1500	HSTDICC1500	06/18/2025	13:29	PS030743.D	7.35	0.00
I.BLK	I.BLK	07/02/2025	09:32	PS030880.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/02/2025	09:56	PS030881.D	7.34	0.00
PB168675BL	PB168675BL	07/02/2025	10:21	PS030882.D	7.34	0.00
PB168675BS	PB168675BS	07/02/2025	10:45	PS030883.D	7.34	0.00
TP-70	Q2436-01	07/02/2025	11:09	PS030884.D	7.34	0.00
TP-69	Q2436-02	07/02/2025	11:33	PS030885.D	7.34	0.00
TP-85	Q2436-03	07/02/2025	11:57	PS030886.D	7.34	0.00
TP-86	Q2436-04	07/02/2025	12:22	PS030887.D	7.34	0.00
TP-84	Q2436-05	07/02/2025	12:46	PS030888.D	7.34	0.00
TP-83	Q2436-06	07/02/2025	13:10	PS030889.D	7.34	0.00
TP-87	Q2436-07	07/02/2025	13:34	PS030890.D	7.34	0.00
TP-100	Q2436-08	07/02/2025	13:58	PS030891.D	7.34	0.00
I.BLK	I.BLK	07/02/2025	14:23	PS030892.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/02/2025	14:47	PS030893.D	7.34	0.00
TP-99	Q2436-09	07/02/2025	15:11	PS030894.D	7.34	0.00
TP-82	Q2436-10	07/02/2025	15:35	PS030895.D	7.34	0.00
TP-82MS	Q2436-10MS	07/02/2025	15:59	PS030896.D	7.34	0.00
TP-82MSD	Q2436-10MSD	07/02/2025	16:24	PS030897.D	7.34	0.00
I.BLK	I.BLK	07/02/2025	16:53	PS030898.D	7.34	0.00
HSTDCCC750	HSTDCCC750	07/02/2025	17:17	PS030899.D	7.34	0.00

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2436

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

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/18/2025 06/18/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	06/18/2025	11:01	PS030738.D	7.77	0.00
HSTDICC200	HSTDICC200	06/18/2025	11:25	PS030739.D	7.77	0.00
HSTDICC500	HSTDICC500	06/18/2025	11:49	PS030740.D	7.77	0.00
HSTDICC750	HSTDICC750	06/18/2025	12:13	PS030741.D	7.77	0.00
HSTDICC1000	HSTDICC1000	06/18/2025	12:37	PS030742.D	7.77	0.00
HSTDICC1500	HSTDICC1500	06/18/2025	13:29	PS030743.D	7.77	0.00
I.BLK	I.BLK	07/02/2025	09:32	PS030880.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/02/2025	09:56	PS030881.D	7.77	0.00
PB168675BL	PB168675BL	07/02/2025	10:21	PS030882.D	7.77	0.00
PB168675BS	PB168675BS	07/02/2025	10:45	PS030883.D	7.77	0.00
TP-70	Q2436-01	07/02/2025	11:09	PS030884.D	7.77	0.00
TP-69	Q2436-02	07/02/2025	11:33	PS030885.D	7.77	0.00
TP-85	Q2436-03	07/02/2025	11:57	PS030886.D	7.77	0.00
TP-86	Q2436-04	07/02/2025	12:22	PS030887.D	7.77	0.00
TP-84	Q2436-05	07/02/2025	12:46	PS030888.D	7.77	0.00
TP-83	Q2436-06	07/02/2025	13:10	PS030889.D	7.77	0.00
TP-87	Q2436-07	07/02/2025	13:34	PS030890.D	7.77	0.00
TP-100	Q2436-08	07/02/2025	13:58	PS030891.D	7.77	0.00
I.BLK	I.BLK	07/02/2025	14:23	PS030892.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/02/2025	14:47	PS030893.D	7.77	0.00
TP-99	Q2436-09	07/02/2025	15:11	PS030894.D	7.77	0.00
TP-82	Q2436-10	07/02/2025	15:35	PS030895.D	7.77	0.00
TP-82MS	Q2436-10MS	07/02/2025	15:59	PS030896.D	7.77	0.00
TP-82MSD	Q2436-10MSD	07/02/2025	16:24	PS030897.D	7.77	0.00
I.BLK	I.BLK	07/02/2025	16:53	PS030898.D	7.77	0.00
HSTDCCC750	HSTDCCC750	07/02/2025	17:17	PS030899.D	7.77	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168675BS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

Lab Sample ID: PB168675BS **Date(s) Analyzed:** 07/02/2025 07/02/2025

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

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-T	1	9.66	9.61	9.71	173	7.8
	2	10.36	10.31	10.41	160	
2,4,5-TP(Silvex)	1	9.36	9.31	9.41	169	5.5
	2	9.93	9.88	9.98	160	
2,4-D	1	8.48	8.43	8.53	160	5.8
	2	9.03	8.98	9.08	151	
2,4-DB	1	10.23	10.18	10.28	180	13.6
	2	10.93	10.88	10.98	157	
DICHLORPROP	1	8.24	8.19	8.29	157	1.9
	2	8.69	8.64	8.74	154	
Dinoseb	1	11.45	11.40	11.50	165	7.5
	2	11.31	11.26	11.36	153	
DICAMBA	1	7.53	7.48	7.58	161	3.2
	2	7.97	7.92	8.02	156	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-82MS

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

Lab Sample ID: Q2436-10MS **Date(s) Analyzed:** 07/02/2025 07/02/2025

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

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
DICHLORPROP	1	8.24	8.19	8.29	121	2.4
	2	8.69	8.64	8.74	124	
2,4-D	1	8.48	8.43	8.53	132	5.4
	2	9.03	8.98	9.08	125	
2,4,5-TP(Silvex)	1	9.36	9.31	9.41	119	1.7
	2	9.93	9.88	9.98	117	
2,4,5-T	1	9.66	9.61	9.71	120	4.3
	2	10.36	10.31	10.41	115	
2,4-DB	1	10.23	10.18	10.28	108	7.1
	2	10.92	10.87	10.97	116	
DICAMBA	1	7.53	7.48	7.58	68.4	3
	2	7.97	7.92	8.02	66.4	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-82MSD

Lab Name: Alliance **Contract:** CAMP02

Lab Code: ACE **SDG NO.:** Q2436

Lab Sample ID: Q2436-10MSD **Date(s) Analyzed:** 07/02/2025 07/02/2025

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

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-TP(Silvex)	1	9.36	9.31	9.41	118	2.6
	2	9.93	9.88	9.98	115	
2,4,5-T	1	9.66	9.61	9.71	116	2.6
	2	10.36	10.31	10.41	113	
DICHLORPROP	1	8.24	8.19	8.29	120	10.5
	2	8.69	8.64	8.74	108	
2,4-D	1	8.47	8.42	8.52	128	4
	2	9.03	8.98	9.08	123	
2,4-DB	1	10.23	10.18	10.28	107	6.3
	2	10.92	10.87	10.97	114	
DICAMBA	1	7.53	7.48	7.58	66.8	2.9
	2	7.97	7.92	8.02	64.9	

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LAB CHRONICLE

OrderID:	Q2436	**OrderDate:**	6/26/2025 3:41:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2436-01	**TP-70**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-02	**TP-69**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-03	**TP-85**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-04	**TP-86**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-05	**TP-84**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-06	**TP-83**	**SOIL**			**06/25/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	

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LAB CHRONICLE

			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-07	**TP-87**	**SOIL**			**06/26/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-08	**TP-100**	**SOIL**			**06/26/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-09	**TP-99**	**SOIL**			**06/26/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-10	**TP-82**	**SOIL**			**06/26/25**			**06/26/25**
			Diesel Range Organics	8015D		06/30/25	07/01/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	82.1 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016178.D	1	06/30/25 09:50	06/30/25 15:09	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2220		206	2030	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.2		37 - 130	51%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	82 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016179.D	1	06/30/25 09:50	06/30/25 15:39	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2420		206	2030	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.0		37 - 130	50%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.1 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016180.D	1	06/30/25 09:50	06/30/25 16:09	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1770	J	198	1950	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.2		37 - 130	51%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	88.7 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016181.D	1	06/30/25 09:50	06/30/25 18:11	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2310		190	1880	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	92.3 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016182.D	1	06/30/25 09:50	06/30/25 18:41	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1790	J	183	1810	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.0		37 - 130	50%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.6 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016183.D	1	06/30/25 09:50	06/30/25 19:11	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2030		186	1840	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.3		37 - 130	51%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.9 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016184.D	1	06/30/25 09:50	06/30/25 19:41	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1580	J	188	1850	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.42		37 - 130	42%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.6 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016185.D	1	06/30/25 09:50	06/30/25 20:11	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	3810		197	1940	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	9.03		37 - 130	45%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	92.2 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016186.D	1	06/30/25 09:50	06/30/25 20:41	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1590	J	183	1810	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	9.15		37 - 130	46%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	92 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016195.D	1	06/30/25 09:50	07/01/25 10:04	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1160	J	183	1810	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.04		37 - 130	40%	SPK: 20

Comments:

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

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

QC SUMMARY

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SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: CDM Smith

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF016042.D	84				0
PIBLK-FF016055.D	79				0
PIBLK-FG016175.D	81				0
PIBLK-FG016188.D	83				0
PIBLK-FG016192.D	101				0
PIBLK-FG016196.D	84				0
PB168658BL	114				0
PB168658BS	72				0
TP-35MS	74				0
TP-35MSD	74				0
TP-70	51				0
TP-69	50				0
TP-85	51				0
TP-86	51				0
TP-84	50				0
TP-83	51				0
TP-87	42				0
TP-100	45				0
TP-99	46				0
TP-82	40				0

	QC LIMITS
TETRACOSANE-d50	For Water : 29-130 For Soil : 37-130

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

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q2436 **SAS No :** Q2436 **SDG No:** Q2436

Client SampleID : TP-35MS **Datafile:** FF016048.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7493	30100	33011	38%	*	68-131

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q2436 **SAS No :** Q2436 **SDG No:** Q2436

Client SampleID : TP-35MSD **Datafile:** FF016049.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7488	30100	32647	34%	*	68-131

MS/MSD % Recovery RPD : 13.3

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SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI

Lab Name: Chemtech **Client:** CDM Smith

Lab Code: CHEM **Cas No:** Q2436 **SAS No :** Q2436 **SDG No:** Q2436

Matrix Spike - EPA Sample No : PB168658BS **Datafile:** FF016046.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6662	0	4925	74	68-131

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB168658BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG NO.: Q2436

Lab File ID: FF016045.D Lab Sample ID: PB168658BL

Instrument ID: FF Date Extracted: 06/30/2025

Matrix: (soil/water) Soil Date Analyzed: 06/30/25

Level: (low/med) low Time Analyzed: 20:41

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168658BS	PB168658BS	FF016046.D	06/30/25
TP-35MS	Q2413-01MS	FF016048.D	06/30/25
TP-35MSD	Q2413-01MSD	FF016049.D	06/30/25
TP-70	Q2436-01	FG016178.D	06/30/25
TP-69	Q2436-02	FG016179.D	06/30/25
TP-85	Q2436-03	FG016180.D	06/30/25
TP-86	Q2436-04	FG016181.D	06/30/25
TP-84	Q2436-05	FG016182.D	06/30/25
TP-83	Q2436-06	FG016183.D	06/30/25
TP-87	Q2436-07	FG016184.D	06/30/25
TP-100	Q2436-08	FG016185.D	06/30/25
TP-99	Q2436-09	FG016186.D	06/30/25
TP-82	Q2436-10	FG016195.D	07/01/25

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168658BL	SDG No.:	Q2436
Lab Sample ID:	PB168658BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016045.D	1	06/30/25 09:50	06/30/25 20:41	PB168658

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	22.8		37 - 130	114%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/30/25
Project:	South River WM Replacement	Date Received:	06/30/25
Client Sample ID:	PIBLK-FF016042.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-FF016042.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016042.D	1		06/30/25	FF063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.8		29 - 130	84%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-FF016055.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-FF016055.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016055.D	1		07/01/25	FF063025

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	15.8		29 - 130	79%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/30/25
Project:	South River WM Replacement	Date Received:	06/30/25
Client Sample ID:	PIBLK-FG016175.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-FG016175.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016175.D	1		06/30/25	FG063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.3		29 - 130	81%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/30/25
Project:	South River WM Replacement	Date Received:	06/30/25
Client Sample ID:	PIBLK-FG016188.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-FG016188.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016188.D	1		06/30/25	FG063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.6		29 - 130	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

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-FG016192.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-FG016192.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016192.D	1		07/01/25	FG070125

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	PIBLK-FG016196.D	SDG No.:	Q2436
Lab Sample ID:	I.BLK-FG016196.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016196.D	1		07/01/25	FG070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.8		29 - 130	84%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168658BS	SDG No.:	Q2436
Lab Sample ID:	PB168658BS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016046.D	1	06/30/25 09:50	06/30/25 21:11	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4930		169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	14.3		37 - 130	72%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35MS	SDG No.:	Q2436
Lab Sample ID:	Q2413-01MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	88.8 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016048.D	1	06/30/25 09:50	06/30/25 22:10	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	33000		190	1870	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	14.9		37 - 130	74%	SPK: 20

Comments:

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

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

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/23/25
Project:	South River WM Replacement	Date Received:	06/24/25
Client Sample ID:	TP-35MSD	SDG No.:	Q2436
Lab Sample ID:	Q2413-01MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	88.8 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016049.D	1	06/30/25 09:50	06/30/25 22:40	PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	32600		190	1870	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	14.8		37 - 130	74%	SPK: 20

Comments:

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

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

CALIBRATION SUMMARY

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DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

Calibration Sequence : FF061325		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	128762116	128762	FF015964.D
500	64295722	128591	FF015965.D
200	27169561	135848	FF015966.D
100	13526499	135265	FF015967.D
50	7306219	146124	FF015968.D
AVG RF : 134918	**% RSD : 5.299**		**AVG RT : 15.0944**

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DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

Calibration Sequence : FG061325		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	121978597	121979	FG016063.D
500	61365081	122730	FG016064.D
200	26234834	131174	FG016065.D
100	13396741	133967	FG016066.D
50	7145066	142901	FG016067.D
AVG RF : 130550	**% RSD : 6.625**		**AVG RT : 15.1972**

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

DataFile: FF016043.D Analyst Name: YP\AJ Analyst Date: 06-30-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65882919	131766	134918	2.336

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

DataFile: FF016056.D Analyst Name: YP\AJ Analyst Date: 07-01-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	66132155	132264	134918	1.967

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

DataFile: FG016176.D Analyst Name: YP\AJ Analyst Date: 06-30-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	60927530	121855	130550	6.66

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

DataFile: FG016189.D Analyst Name: YP\AJ Analyst Date: 06-30-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	63940567	127881	130550	2.044

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

DataFile: FG016193.D Analyst Name: YP\AJ Analyst Date: 07-01-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65241935	130484	130550	0.051

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DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: CHEM Case No.: Q2436 SAS No.: Q2436 SDG No.: Q2436

DataFile: FG016197.D Analyst Name: YP\AJ Analyst Date: 07-01-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65157320	130315	130550	0.18

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Analytical Sequence

Client: CDM Smith **SDG No.:** Q2436

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

GC Column: RXI-1MS **ID:** 0.18 **(mm)**

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION **15.0944**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	30 Jun 2025 18:41	FF016042.D	15.094	
50 PPM TRPH STD	50 PPM TRPH STD	30 Jun 2025 19:11	FF016043.D	15.097	
PB168658BL	PB168658BL	30 Jun 2025 20:41	FF016045.D	15.093	
PB168658BS	PB168658BS	30 Jun 2025 21:11	FF016046.D	15.093	
TP-35MS	Q2413-01MS	30 Jun 2025 22:10	FF016048.D	15.094	
TP-35MSD	Q2413-01MSD	30 Jun 2025 22:40	FF016049.D	15.094	
PIBLK02	I.BLK02	01 Jul 2025 01:38	FF016055.D	15.093	
50 PPM TRPH STD	50 PPM TRPH STD	01 Jul 2025 02:08	FF016056.D	15.096	
PIBLK03	I.BLK03	30 Jun 2025 13:39	FG016175.D	15.199	
50 PPM TRPH STD	50 PPM TRPH STD	30 Jun 2025 14:09	FG016176.D	15.201	
TP-70	Q2436-01	30 Jun 2025 15:09	FG016178.D	15.198	
TP-69	Q2436-02	30 Jun 2025 15:39	FG016179.D	15.198	
TP-85	Q2436-03	30 Jun 2025 16:09	FG016180.D	15.198	
TP-86	Q2436-04	30 Jun 2025 18:11	FG016181.D	15.198	
TP-84	Q2436-05	30 Jun 2025 18:41	FG016182.D	15.198	
TP-83	Q2436-06	30 Jun 2025 19:11	FG016183.D	15.198	
TP-87	Q2436-07	30 Jun 2025 19:41	FG016184.D	15.198	
TP-100	Q2436-08	30 Jun 2025 20:11	FG016185.D	15.199	
TP-99	Q2436-09	30 Jun 2025 20:41	FG016186.D	15.200	
PIBLK04	I.BLK04	30 Jun 2025 21:40	FG016188.D	15.198	
50 PPM TRPH STD	50 PPM TRPH STD	30 Jun 2025 22:10	FG016189.D	15.202	
PIBLK05	I.BLK05	01 Jul 2025 08:28	FG016192.D	15.198	
50 PPM TRPH STD	50 PPM TRPH STD	01 Jul 2025 08:58	FG016193.D	15.202	
TP-82	Q2436-10	01 Jul 2025 10:04	FG016195.D	15.197	
PIBLK06	I.BLK06	01 Jul 2025 10:35	FG016196.D	15.198	
50 PPM TRPH STD	50 PPM TRPH STD	01 Jul 2025 11:04	FG016197.D	15.202	

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

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	15.0972	15.2972

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LAB CHRONICLE

OrderID:	Q2436	**OrderDate:**	6/26/2025 3:41:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2436-01	**TP-70**	**SOIL**			**06/25/25**			**06/26/25**
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-02	**TP-69**	**SOIL**			**06/25/25**			**06/26/25**
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-03	**TP-85**	**SOIL**			**06/25/25**			**06/26/25**
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-04	**TP-86**	**SOIL**			**06/25/25**			**06/26/25**
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-05	**TP-84**	**SOIL**			**06/25/25**			**06/26/25**
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-06	**TP-83**	**SOIL**			**06/25/25**			**06/26/25**
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-07	**TP-87**	**SOIL**			**06/26/25**			**06/26/25**
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-08	**TP-100**	**SOIL**			**06/26/25**			**06/26/25**
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-09	**TP-99**	**SOIL**			**06/26/25**			**06/26/25**

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LAB CHRONICLE

			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	
Q2436-10	**TP-82**	**SOIL**			**06/26/25**			**06/26/25**
			Mercury	7471B		06/27/25	06/30/25	
			Metals ICP-TAL	6010D		06/27/25	07/01/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2436 **Order ID:** Q2436

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-70								
Q2436-01	TP-70	SOIL	Aluminum	8840		0.89	5.32	mg/Kg
Q2436-01	TP-70	SOIL	Arsenic	4.89		0.20	1.06	mg/Kg
Q2436-01	TP-70	SOIL	Barium	67.4		0.78	5.32	mg/Kg
Q2436-01	TP-70	SOIL	Beryllium	0.56		0.027	0.32	mg/Kg
Q2436-01	TP-70	SOIL	Calcium	318		11.8	106	mg/Kg
Q2436-01	TP-70	SOIL	Chromium	7.09		0.050	0.53	mg/Kg
Q2436-01	TP-70	SOIL	Cobalt	2.07		0.11	1.60	mg/Kg
Q2436-01	TP-70	SOIL	Copper	1.84		0.23	1.06	mg/Kg
Q2436-01	TP-70	SOIL	Iron	12400		4.24	5.32	mg/Kg
Q2436-01	TP-70	SOIL	Lead	5.95		0.14	0.64	mg/Kg
Q2436-01	TP-70	SOIL	Magnesium	203		12.8	106	mg/Kg
Q2436-01	TP-70	SOIL	Manganese	70.4		0.15	1.06	mg/Kg
Q2436-01	TP-70	SOIL	Nickel	3.08		0.14	2.13	mg/Kg
Q2436-01	TP-70	SOIL	Potassium	207		29.5	106	mg/Kg
Q2436-01	TP-70	SOIL	Selenium	2.88		0.28	1.06	mg/Kg
Q2436-01	TP-70	SOIL	Silver	0.56		0.13	0.53	mg/Kg
Q2436-01	TP-70	SOIL	Sodium	235		18.9	106	mg/Kg
Q2436-01	TP-70	SOIL	Vanadium	19.7		0.27	2.13	mg/Kg
Q2436-01	TP-70	SOIL	Zinc	8.13		0.25	2.13	mg/Kg
Client ID : TP-69								
Q2436-02	TP-69	SOIL	Aluminum	3120		0.83	4.92	mg/Kg
Q2436-02	TP-69	SOIL	Arsenic	5.74		0.19	0.98	mg/Kg
Q2436-02	TP-69	SOIL	Barium	5.63		0.72	4.92	mg/Kg
Q2436-02	TP-69	SOIL	Beryllium	0.35		0.025	0.30	mg/Kg
Q2436-02	TP-69	SOIL	Calcium	361		10.9	98.3	mg/Kg
Q2436-02	TP-69	SOIL	Chromium	8.42		0.046	0.49	mg/Kg
Q2436-02	TP-69	SOIL	Cobalt	0.39	J	0.098	1.48	mg/Kg
Q2436-02	TP-69	SOIL	Copper	1.29		0.22	0.98	mg/Kg
Q2436-02	TP-69	SOIL	Iron	18800		3.92	4.92	mg/Kg
Q2436-02	TP-69	SOIL	Lead	28.7		0.13	0.59	mg/Kg
Q2436-02	TP-69	SOIL	Magnesium	182		11.8	98.3	mg/Kg
Q2436-02	TP-69	SOIL	Manganese	7.58		0.14	0.98	mg/Kg
Q2436-02	TP-69	SOIL	Mercury	0.024		0.0080	0.015	mg/Kg
Q2436-02	TP-69	SOIL	Nickel	1.17	J	0.13	1.97	mg/Kg
Q2436-02	TP-69	SOIL	Potassium	385		27.2	98.3	mg/Kg
Q2436-02	TP-69	SOIL	Selenium	4.47		0.26	0.98	mg/Kg
Q2436-02	TP-69	SOIL	Silver	0.84		0.12	0.49	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2436 **Order ID:** Q2436

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2436-02	TP-69	SOIL	Sodium	324		17.5	98.3	mg/Kg
Q2436-02	TP-69	SOIL	Thallium	0.53	J	0.23	1.97	mg/Kg
Q2436-02	TP-69	SOIL	Vanadium	17.1		0.25	1.97	mg/Kg
Q2436-02	TP-69	SOIL	Zinc	7.35		0.23	1.97	mg/Kg
Client ID : TP-85								
Q2436-03	TP-85	SOIL	Aluminum	4030		0.85	5.07	mg/Kg
Q2436-03	TP-85	SOIL	Arsenic	1.63		0.19	1.01	mg/Kg
Q2436-03	TP-85	SOIL	Barium	11.0		0.74	5.07	mg/Kg
Q2436-03	TP-85	SOIL	Beryllium	0.26	J	0.025	0.30	mg/Kg
Q2436-03	TP-85	SOIL	Calcium	176		11.2	101	mg/Kg
Q2436-03	TP-85	SOIL	Chromium	5.18		0.048	0.51	mg/Kg
Q2436-03	TP-85	SOIL	Cobalt	1.06	J	0.10	1.52	mg/Kg
Q2436-03	TP-85	SOIL	Copper	2.32		0.22	1.01	mg/Kg
Q2436-03	TP-85	SOIL	Iron	7060		4.04	5.07	mg/Kg
Q2436-03	TP-85	SOIL	Lead	4.12		0.13	0.61	mg/Kg
Q2436-03	TP-85	SOIL	Magnesium	183		12.2	101	mg/Kg
Q2436-03	TP-85	SOIL	Manganese	9.36		0.14	1.01	mg/Kg
Q2436-03	TP-85	SOIL	Nickel	2.53		0.13	2.03	mg/Kg
Q2436-03	TP-85	SOIL	Potassium	181		28.1	101	mg/Kg
Q2436-03	TP-85	SOIL	Selenium	1.72		0.26	1.01	mg/Kg
Q2436-03	TP-85	SOIL	Silver	0.29	J	0.12	0.51	mg/Kg
Q2436-03	TP-85	SOIL	Sodium	240		18.0	101	mg/Kg
Q2436-03	TP-85	SOIL	Vanadium	11.8		0.25	2.03	mg/Kg
Q2436-03	TP-85	SOIL	Zinc	7.55		0.23	2.03	mg/Kg
Client ID : TP-86								
Q2436-04	TP-86	SOIL	Aluminum	4440		0.84	5.01	mg/Kg
Q2436-04	TP-86	SOIL	Arsenic	6.08		0.19	1.00	mg/Kg
Q2436-04	TP-86	SOIL	Barium	14.9		0.73	5.01	mg/Kg
Q2436-04	TP-86	SOIL	Beryllium	0.71		0.025	0.30	mg/Kg
Q2436-04	TP-86	SOIL	Calcium	344		11.1	100	mg/Kg
Q2436-04	TP-86	SOIL	Chromium	14.2		0.047	0.50	mg/Kg
Q2436-04	TP-86	SOIL	Cobalt	4.14		0.10	1.50	mg/Kg
Q2436-04	TP-86	SOIL	Iron	24500		4.00	5.01	mg/Kg
Q2436-04	TP-86	SOIL	Lead	3.87		0.13	0.60	mg/Kg
Q2436-04	TP-86	SOIL	Magnesium	275		12.0	100	mg/Kg
Q2436-04	TP-86	SOIL	Manganese	71.6		0.14	1.00	mg/Kg
Q2436-04	TP-86	SOIL	Nickel	3.18		0.13	2.00	mg/Kg
Q2436-04	TP-86	SOIL	Potassium	791		27.8	100	mg/Kg
Q2436-04	TP-86	SOIL	Selenium	5.08		0.26	1.00	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2436 **Order ID:** Q2436

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2436-04	TP-86	SOIL	Silver	1.12		0.12	0.50	mg/Kg
Q2436-04	TP-86	SOIL	Sodium	427		17.8	100	mg/Kg
Q2436-04	TP-86	SOIL	Thallium	0.50	J	0.23	2.00	mg/Kg
Q2436-04	TP-86	SOIL	Vanadium	22.6		0.25	2.00	mg/Kg
Q2436-04	TP-86	SOIL	Zinc	15.5		0.23	2.00	mg/Kg
Client ID : TP-84								
Q2436-05	TP-84	SOIL	Aluminum	4860		0.80	4.73	mg/Kg
Q2436-05	TP-84	SOIL	Arsenic	2.23		0.18	0.95	mg/Kg
Q2436-05	TP-84	SOIL	Barium	11.5		0.69	4.73	mg/Kg
Q2436-05	TP-84	SOIL	Beryllium	0.42		0.024	0.28	mg/Kg
Q2436-05	TP-84	SOIL	Calcium	320		10.5	94.6	mg/Kg
Q2436-05	TP-84	SOIL	Chromium	6.70		0.044	0.47	mg/Kg
Q2436-05	TP-84	SOIL	Cobalt	2.20		0.095	1.42	mg/Kg
Q2436-05	TP-84	SOIL	Copper	2.13		0.21	0.95	mg/Kg
Q2436-05	TP-84	SOIL	Iron	13400		3.78	4.73	mg/Kg
Q2436-05	TP-84	SOIL	Lead	4.43		0.12	0.57	mg/Kg
Q2436-05	TP-84	SOIL	Magnesium	312		11.4	94.6	mg/Kg
Q2436-05	TP-84	SOIL	Manganese	25.9		0.13	0.95	mg/Kg
Q2436-05	TP-84	SOIL	Nickel	3.47		0.12	1.89	mg/Kg
Q2436-05	TP-84	SOIL	Potassium	191		26.2	94.6	mg/Kg
Q2436-05	TP-84	SOIL	Selenium	3.16		0.25	0.95	mg/Kg
Q2436-05	TP-84	SOIL	Silver	0.66		0.11	0.47	mg/Kg
Q2436-05	TP-84	SOIL	Sodium	160		16.8	94.6	mg/Kg
Q2436-05	TP-84	SOIL	Vanadium	13.9		0.24	1.89	mg/Kg
Q2436-05	TP-84	SOIL	Zinc	13.1		0.22	1.89	mg/Kg
Client ID : TP-83								
Q2436-06	TP-83	SOIL	Aluminum	8670		0.88	5.26	mg/Kg
Q2436-06	TP-83	SOIL	Arsenic	4.16		0.20	1.05	mg/Kg
Q2436-06	TP-83	SOIL	Barium	20.7		0.77	5.26	mg/Kg
Q2436-06	TP-83	SOIL	Beryllium	0.65		0.026	0.32	mg/Kg
Q2436-06	TP-83	SOIL	Calcium	227		11.7	105	mg/Kg
Q2436-06	TP-83	SOIL	Chromium	13.0		0.049	0.53	mg/Kg
Q2436-06	TP-83	SOIL	Cobalt	3.11		0.11	1.58	mg/Kg
Q2436-06	TP-83	SOIL	Copper	1.13		0.23	1.05	mg/Kg
Q2436-06	TP-83	SOIL	Iron	19500		4.19	5.26	mg/Kg
Q2436-06	TP-83	SOIL	Lead	4.86		0.14	0.63	mg/Kg
Q2436-06	TP-83	SOIL	Magnesium	273		12.6	105	mg/Kg
Q2436-06	TP-83	SOIL	Manganese	57.2		0.15	1.05	mg/Kg
Q2436-06	TP-83	SOIL	Mercury	0.011	J	0.0080	0.015	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2436 **Order ID:** Q2436

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2436-06	TP-83	SOIL	Nickel	4.90		0.14	2.10	mg/Kg
Q2436-06	TP-83	SOIL	Potassium	382		29.1	105	mg/Kg
Q2436-06	TP-83	SOIL	Selenium	4.79		0.27	1.05	mg/Kg
Q2436-06	TP-83	SOIL	Silver	0.93		0.13	0.53	mg/Kg
Q2436-06	TP-83	SOIL	Sodium	82.2	J	18.7	105	mg/Kg
Q2436-06	TP-83	SOIL	Vanadium	20.5		0.26	2.10	mg/Kg
Q2436-06	TP-83	SOIL	Zinc	14.4		0.24	2.10	mg/Kg
Client ID : TP-87								
Q2436-07	TP-87	SOIL	Aluminum	8840		0.85	5.03	mg/Kg
Q2436-07	TP-87	SOIL	Arsenic	4.94		0.19	1.01	mg/Kg
Q2436-07	TP-87	SOIL	Barium	14.6		0.74	5.03	mg/Kg
Q2436-07	TP-87	SOIL	Beryllium	0.77		0.025	0.30	mg/Kg
Q2436-07	TP-87	SOIL	Calcium	278		11.2	101	mg/Kg
Q2436-07	TP-87	SOIL	Chromium	15.3		0.047	0.50	mg/Kg
Q2436-07	TP-87	SOIL	Cobalt	4.91		0.10	1.51	mg/Kg
Q2436-07	TP-87	SOIL	Iron	21300		4.02	5.03	mg/Kg
Q2436-07	TP-87	SOIL	Lead	5.97		0.13	0.60	mg/Kg
Q2436-07	TP-87	SOIL	Magnesium	319		12.1	101	mg/Kg
Q2436-07	TP-87	SOIL	Manganese	52.1		0.14	1.01	mg/Kg
Q2436-07	TP-87	SOIL	Mercury	0.010	J	0.0080	0.014	mg/Kg
Q2436-07	TP-87	SOIL	Nickel	7.01		0.13	2.01	mg/Kg
Q2436-07	TP-87	SOIL	Potassium	354		27.9	101	mg/Kg
Q2436-07	TP-87	SOIL	Selenium	4.81		0.26	1.01	mg/Kg
Q2436-07	TP-87	SOIL	Silver	0.93		0.12	0.50	mg/Kg
Q2436-07	TP-87	SOIL	Sodium	487		17.9	101	mg/Kg
Q2436-07	TP-87	SOIL	Vanadium	19.7		0.25	2.01	mg/Kg
Q2436-07	TP-87	SOIL	Zinc	16.6		0.23	2.01	mg/Kg
Client ID : TP-100								
Q2436-08	TP-100	SOIL	Aluminum	11700		0.90	5.36	mg/Kg
Q2436-08	TP-100	SOIL	Arsenic	2.67		0.20	1.07	mg/Kg
Q2436-08	TP-100	SOIL	Barium	24.5		0.78	5.36	mg/Kg
Q2436-08	TP-100	SOIL	Beryllium	0.72		0.027	0.32	mg/Kg
Q2436-08	TP-100	SOIL	Calcium	333		11.9	107	mg/Kg
Q2436-08	TP-100	SOIL	Chromium	7.70		0.050	0.54	mg/Kg
Q2436-08	TP-100	SOIL	Cobalt	5.97		0.11	1.61	mg/Kg
Q2436-08	TP-100	SOIL	Copper	1.12		0.24	1.07	mg/Kg
Q2436-08	TP-100	SOIL	Iron	17500		4.28	5.36	mg/Kg
Q2436-08	TP-100	SOIL	Lead	7.65		0.14	0.64	mg/Kg
Q2436-08	TP-100	SOIL	Magnesium	270		12.9	107	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2436 **Order ID:** Q2436

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2436-08	TP-100	SOIL	Manganese	72.9		0.15	1.07	mg/Kg
Q2436-08	TP-100	SOIL	Mercury	0.010	J	0.0080	0.015	mg/Kg
Q2436-08	TP-100	SOIL	Nickel	7.48		0.14	2.14	mg/Kg
Q2436-08	TP-100	SOIL	Potassium	266		29.7	107	mg/Kg
Q2436-08	TP-100	SOIL	Selenium	4.27		0.28	1.07	mg/Kg
Q2436-08	TP-100	SOIL	Silver	0.75		0.13	0.54	mg/Kg
Q2436-08	TP-100	SOIL	Sodium	176		19.1	107	mg/Kg
Q2436-08	TP-100	SOIL	Vanadium	15.7		0.27	2.14	mg/Kg
Q2436-08	TP-100	SOIL	Zinc	20.4		0.25	2.14	mg/Kg
Client ID : TP-99								
Q2436-09	TP-99	SOIL	Aluminum	15300		0.81	4.82	mg/Kg
Q2436-09	TP-99	SOIL	Arsenic	2.79		0.18	0.96	mg/Kg
Q2436-09	TP-99	SOIL	Barium	66.6		0.70	4.82	mg/Kg
Q2436-09	TP-99	SOIL	Beryllium	0.51		0.024	0.29	mg/Kg
Q2436-09	TP-99	SOIL	Calcium	2910		10.7	96.4	mg/Kg
Q2436-09	TP-99	SOIL	Chromium	7.44		0.045	0.48	mg/Kg
Q2436-09	TP-99	SOIL	Cobalt	4.07		0.096	1.45	mg/Kg
Q2436-09	TP-99	SOIL	Copper	3.21		0.21	0.96	mg/Kg
Q2436-09	TP-99	SOIL	Iron	13700		3.85	4.82	mg/Kg
Q2436-09	TP-99	SOIL	Lead	7.43		0.13	0.58	mg/Kg
Q2436-09	TP-99	SOIL	Magnesium	319		11.6	96.4	mg/Kg
Q2436-09	TP-99	SOIL	Manganese	61.2		0.14	0.96	mg/Kg
Q2436-09	TP-99	SOIL	Nickel	8.04		0.13	1.93	mg/Kg
Q2436-09	TP-99	SOIL	Potassium	299		26.7	96.4	mg/Kg
Q2436-09	TP-99	SOIL	Selenium	3.85		0.25	0.96	mg/Kg
Q2436-09	TP-99	SOIL	Silver	0.69		0.12	0.48	mg/Kg
Q2436-09	TP-99	SOIL	Sodium	318		17.2	96.4	mg/Kg
Q2436-09	TP-99	SOIL	Vanadium	12.2		0.24	1.93	mg/Kg
Q2436-09	TP-99	SOIL	Zinc	18.5		0.22	1.93	mg/Kg
Client ID : TP-82								
Q2436-10	TP-82	SOIL	Aluminum	1050		0.85	5.03	mg/Kg
Q2436-10	TP-82	SOIL	Arsenic	1.03		0.19	1.01	mg/Kg
Q2436-10	TP-82	SOIL	Barium	8.54		0.74	5.03	mg/Kg
Q2436-10	TP-82	SOIL	Beryllium	0.20	J	0.025	0.30	mg/Kg
Q2436-10	TP-82	SOIL	Calcium	174		11.2	101	mg/Kg
Q2436-10	TP-82	SOIL	Chromium	3.04		0.047	0.50	mg/Kg
Q2436-10	TP-82	SOIL	Cobalt	1.28	J	0.10	1.51	mg/Kg
Q2436-10	TP-82	SOIL	Copper	0.86	J	0.22	1.01	mg/Kg
Q2436-10	TP-82	SOIL	Iron	7140		4.02	5.03	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2436 **Order ID:** Q2436

Client: CDM Smith **Project ID:** South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2436-10	TP-82	SOIL	Lead	3.84		0.13	0.60	mg/Kg
Q2436-10	TP-82	SOIL	Magnesium	83.6	J	12.1	101	mg/Kg
Q2436-10	TP-82	SOIL	Manganese	19.7		0.14	1.01	mg/Kg
Q2436-10	TP-82	SOIL	Nickel	1.05	J	0.13	2.01	mg/Kg
Q2436-10	TP-82	SOIL	Potassium	45.1	J	27.9	101	mg/Kg
Q2436-10	TP-82	SOIL	Selenium	1.72		0.26	1.01	mg/Kg
Q2436-10	TP-82	SOIL	Silver	0.38	J	0.12	0.50	mg/Kg
Q2436-10	TP-82	SOIL	Sodium	171		17.9	101	mg/Kg
Q2436-10	TP-82	SOIL	Vanadium	9.07		0.25	2.01	mg/Kg
Q2436-10	TP-82	SOIL	Zinc	6.28		0.23	2.01	mg/Kg

SAMPLE DATA

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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-70	SDG No.:	Q2436
Lab Sample ID:	Q2436-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	82.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8840		1	0.89	5.32	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.66	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-38-2	Arsenic	4.89		1	0.20	1.06	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-39-3	Barium	67.4	N	1	0.78	5.32	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-41-7	Beryllium	0.56		1	0.027	0.32	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-70-2	Calcium	318	N	1	11.8	106	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-47-3	Chromium	7.09		1	0.050	0.53	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-48-4	Cobalt	2.07	*	1	0.11	1.60	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-50-8	Copper	1.84		1	0.23	1.06	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7439-89-6	Iron	12400		1	4.24	5.32	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7439-92-1	Lead	5.95		1	0.14	0.64	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7439-95-4	Magnesium	203	N	1	12.8	106	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7439-96-5	Manganese	70.4	N*	1	0.15	1.06	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7439-97-6	Mercury	0.0080	U	1	0.0080	0.014	mg/Kg	06/27/25 14:20	06/30/25 13:57	7471B	
7440-02-0	Nickel	3.08		1	0.14	2.13	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-09-7	Potassium	207		1	29.5	106	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7782-49-2	Selenium	2.88		1	0.28	1.06	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-22-4	Silver	0.56		1	0.13	0.53	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-23-5	Sodium	235		1	18.9	106	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.13	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-62-2	Vanadium	19.7		1	0.27	2.13	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050
7440-66-6	Zinc	8.13		1	0.25	2.13	mg/Kg	06/27/25 13:05	07/01/25 17:43	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-69	SDG No.:	Q2436
Lab Sample ID:	Q2436-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	82

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	3120		1	0.83	4.92	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.46	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-38-2	Arsenic	5.74		1	0.19	0.98	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-39-3	Barium	5.63	N	1	0.72	4.92	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-41-7	Beryllium	0.35		1	0.025	0.30	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-70-2	Calcium	361	N	1	10.9	98.3	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-47-3	Chromium	8.42		1	0.046	0.49	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-48-4	Cobalt	0.39	J*	1	0.098	1.48	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-50-8	Copper	1.29		1	0.22	0.98	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7439-89-6	Iron	18800		1	3.92	4.92	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7439-92-1	Lead	28.7		1	0.13	0.59	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7439-95-4	Magnesium	182	N	1	11.8	98.3	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7439-96-5	Manganese	7.58	N*	1	0.14	0.98	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7439-97-6	Mercury	0.024		1	0.0080	0.015	mg/Kg	06/27/25 14:20	06/30/25 13:59	7471B	
7440-02-0	Nickel	1.17	J	1	0.13	1.97	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-09-7	Potassium	385		1	27.2	98.3	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7782-49-2	Selenium	4.47		1	0.26	0.98	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-22-4	Silver	0.84		1	0.12	0.49	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-23-5	Sodium	324		1	17.5	98.3	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-28-0	Thallium	0.53	J	1	0.23	1.97	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-62-2	Vanadium	17.1		1	0.25	1.97	mg/Kg	06/27/25 13:05	07/01/25 17:47	6010D	SW3050
7440-66-6	Zinc	7.35		1	0.23	1.97	mg/Kg	06/27/25 13:05	07/01/25 17:47	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
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-85	SDG No.:	Q2436
Lab Sample ID:	Q2436-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4030		1	0.85	5.07	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.53	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-38-2	Arsenic	1.63		1	0.19	1.01	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-39-3	Barium	11.0	N	1	0.74	5.07	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-41-7	Beryllium	0.26	J	1	0.025	0.30	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-70-2	Calcium	176	N	1	11.2	101	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-47-3	Chromium	5.18		1	0.048	0.51	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-48-4	Cobalt	1.06	J*	1	0.10	1.52	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-50-8	Copper	2.32		1	0.22	1.01	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7439-89-6	Iron	7060		1	4.04	5.07	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7439-92-1	Lead	4.12		1	0.13	0.61	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7439-95-4	Magnesium	183	N	1	12.2	101	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7439-96-5	Manganese	9.36	N*	1	0.14	1.01	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7439-97-6	Mercury	0.0080	U	1	0.0080	0.014	mg/Kg	06/27/25 14:20	06/30/25 14:01	7471B	
7440-02-0	Nickel	2.53		1	0.13	2.03	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-09-7	Potassium	181		1	28.1	101	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7782-49-2	Selenium	1.72		1	0.26	1.01	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-22-4	Silver	0.29	J	1	0.12	0.51	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-23-5	Sodium	240		1	18.0	101	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	2.03	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-62-2	Vanadium	11.8		1	0.25	2.03	mg/Kg	06/27/25 13:05	07/01/25 17:51	6010D	SW3050
7440-66-6	Zinc	7.55		1	0.23	2.03	mg/Kg	06/27/25 13:05	07/01/25 17:51	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
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-86	SDG No.:	Q2436
Lab Sample ID:	Q2436-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4440		1	0.84	5.01	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.51	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-38-2	Arsenic	6.08		1	0.19	1.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-39-3	Barium	14.9	N	1	0.73	5.01	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-41-7	Beryllium	0.71		1	0.025	0.30	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-70-2	Calcium	344	N	1	11.1	100	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-47-3	Chromium	14.2		1	0.047	0.50	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-48-4	Cobalt	4.14	*	1	0.10	1.50	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-50-8	Copper	0.22	U	1	0.22	1.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7439-89-6	Iron	24500		1	4.00	5.01	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7439-92-1	Lead	3.87		1	0.13	0.60	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7439-95-4	Magnesium	275	N	1	12.0	100	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7439-96-5	Manganese	71.6	N*	1	0.14	1.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7439-97-6	Mercury	0.0080	U	1	0.0080	0.015	mg/Kg	06/27/25 14:20	06/30/25 14:08	7471B	
7440-02-0	Nickel	3.18		1	0.13	2.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-09-7	Potassium	791		1	27.8	100	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7782-49-2	Selenium	5.08		1	0.26	1.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-22-4	Silver	1.12		1	0.12	0.50	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-23-5	Sodium	427		1	17.8	100	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-28-0	Thallium	0.50	J	1	0.23	2.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-62-2	Vanadium	22.6		1	0.25	2.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	6010D	SW3050
7440-66-6	Zinc	15.5		1	0.23	2.00	mg/Kg	06/27/25 13:05	07/01/25 18:01	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
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OR = Over Range
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-84	SDG No.:	Q2436
Lab Sample ID:	Q2436-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	92.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4860		1	0.80	4.73	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.37	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-38-2	Arsenic	2.23		1	0.18	0.95	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-39-3	Barium	11.5	N	1	0.69	4.73	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-41-7	Beryllium	0.42		1	0.024	0.28	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.28	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-70-2	Calcium	320	N	1	10.5	94.6	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-47-3	Chromium	6.70		1	0.044	0.47	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-48-4	Cobalt	2.20	*	1	0.095	1.42	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-50-8	Copper	2.13		1	0.21	0.95	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7439-89-6	Iron	13400		1	3.78	4.73	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7439-92-1	Lead	4.43		1	0.12	0.57	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7439-95-4	Magnesium	312	N	1	11.4	94.6	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7439-96-5	Manganese	25.9	N*	1	0.13	0.95	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7439-97-6	Mercury	0.0070	U	1	0.0070	0.013	mg/Kg	06/27/25 14:20	06/30/25 14:10	7471B	
7440-02-0	Nickel	3.47		1	0.12	1.89	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-09-7	Potassium	191		1	26.2	94.6	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7782-49-2	Selenium	3.16		1	0.25	0.95	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-22-4	Silver	0.66		1	0.11	0.47	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-23-5	Sodium	160		1	16.8	94.6	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.89	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-62-2	Vanadium	13.9		1	0.24	1.89	mg/Kg	06/27/25 13:05	07/01/25 18:05	6010D	SW3050
7440-66-6	Zinc	13.1		1	0.22	1.89	mg/Kg	06/27/25 13:05	07/01/25 18:05	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
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/25/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-83	SDG No.:	Q2436
Lab Sample ID:	Q2436-06	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	8670		1	0.88	5.26	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-36-0	Antimony	0.23	UN	1	0.23	2.63	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-38-2	Arsenic	4.16		1	0.20	1.05	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-39-3	Barium	20.7	N	1	0.77	5.26	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-41-7	Beryllium	0.65		1	0.026	0.32	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-43-9	Cadmium	0.025	U	1	0.025	0.32	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-70-2	Calcium	227	N	1	11.7	105	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-47-3	Chromium	13.0		1	0.049	0.53	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-48-4	Cobalt	3.11	*	1	0.11	1.58	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-50-8	Copper	1.13		1	0.23	1.05	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7439-89-6	Iron	19500		1	4.19	5.26	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7439-92-1	Lead	4.86		1	0.14	0.63	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7439-95-4	Magnesium	273	N	1	12.6	105	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7439-96-5	Manganese	57.2	N*	1	0.15	1.05	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7439-97-6	Mercury	0.011	J	1	0.0080	0.015	mg/Kg	06/27/25 14:20	06/30/25 14:13	7471B	
7440-02-0	Nickel	4.90		1	0.14	2.10	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-09-7	Potassium	382		1	29.1	105	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7782-49-2	Selenium	4.79		1	0.27	1.05	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-22-4	Silver	0.93		1	0.13	0.53	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-23-5	Sodium	82.2	J	1	18.7	105	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-28-0	Thallium	0.24	U	1	0.24	2.10	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-62-2	Vanadium	20.5		1	0.26	2.10	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050
7440-66-6	Zinc	14.4		1	0.24	2.10	mg/Kg	06/27/25 13:05	07/01/25 18:10	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-87	SDG No.:	Q2436
Lab Sample ID:	Q2436-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	89.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	8840		1	0.85	5.03	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.52	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-38-2	Arsenic	4.94		1	0.19	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-39-3	Barium	14.6	N	1	0.74	5.03	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-41-7	Beryllium	0.77		1	0.025	0.30	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-70-2	Calcium	278	N	1	11.2	101	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-47-3	Chromium	15.3		1	0.047	0.50	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-48-4	Cobalt	4.91	*	1	0.10	1.51	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-50-8	Copper	0.22	U	1	0.22	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7439-89-6	Iron	21300		1	4.02	5.03	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7439-92-1	Lead	5.97		1	0.13	0.60	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7439-95-4	Magnesium	319	N	1	12.1	101	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7439-96-5	Manganese	52.1	N*	1	0.14	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7439-97-6	Mercury	0.010	J	1	0.0080	0.014	mg/Kg	06/27/25 14:20	06/30/25 14:15	7471B	
7440-02-0	Nickel	7.01		1	0.13	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-09-7	Potassium	354		1	27.9	101	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7782-49-2	Selenium	4.81		1	0.26	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-22-4	Silver	0.93		1	0.12	0.50	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-23-5	Sodium	487		1	17.9	101	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-62-2	Vanadium	19.7		1	0.25	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050
7440-66-6	Zinc	16.6		1	0.23	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:14	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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J = Estimated Value
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-100	SDG No.:	Q2436
Lab Sample ID:	Q2436-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	11700		1	0.90	5.36	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-36-0	Antimony	0.24	UN	1	0.24	2.68	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-38-2	Arsenic	2.67		1	0.20	1.07	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-39-3	Barium	24.5	N	1	0.78	5.36	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-41-7	Beryllium	0.72		1	0.027	0.32	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-43-9	Cadmium	0.026	U	1	0.026	0.32	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-70-2	Calcium	333	N	1	11.9	107	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-47-3	Chromium	7.70		1	0.050	0.54	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-48-4	Cobalt	5.97	*	1	0.11	1.61	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-50-8	Copper	1.12		1	0.24	1.07	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7439-89-6	Iron	17500		1	4.28	5.36	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7439-92-1	Lead	7.65		1	0.14	0.64	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7439-95-4	Magnesium	270	N	1	12.9	107	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7439-96-5	Manganese	72.9	N*	1	0.15	1.07	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7439-97-6	Mercury	0.010	J	1	0.0080	0.015	mg/Kg	06/27/25 14:20	06/30/25 14:17	7471B	
7440-02-0	Nickel	7.48		1	0.14	2.14	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-09-7	Potassium	266		1	29.7	107	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7782-49-2	Selenium	4.27		1	0.28	1.07	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-22-4	Silver	0.75		1	0.13	0.54	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-23-5	Sodium	176		1	19.1	107	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-28-0	Thallium	0.25	U	1	0.25	2.14	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-62-2	Vanadium	15.7		1	0.27	2.14	mg/Kg	06/27/25 13:05	07/01/25 18:18	6010D	SW3050
7440-66-6	Zinc	20.4		1	0.25	2.14	mg/Kg	06/27/25 13:05	07/01/25 18:18	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
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Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-99	SDG No.:	Q2436
Lab Sample ID:	Q2436-09	Matrix:	SOIL
Level (low/med):	low	% Solid:	92.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	15300		1	0.81	4.82	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-36-0	Antimony	0.21	UN	1	0.21	2.41	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-38-2	Arsenic	2.79		1	0.18	0.96	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-39-3	Barium	66.6	N	1	0.70	4.82	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-41-7	Beryllium	0.51		1	0.024	0.29	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-43-9	Cadmium	0.023	U	1	0.023	0.29	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-70-2	Calcium	2910	N	1	10.7	96.4	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-47-3	Chromium	7.44		1	0.045	0.48	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-48-4	Cobalt	4.07	*	1	0.096	1.45	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-50-8	Copper	3.21		1	0.21	0.96	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7439-89-6	Iron	13700		1	3.85	4.82	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7439-92-1	Lead	7.43		1	0.13	0.58	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7439-95-4	Magnesium	319	N	1	11.6	96.4	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7439-96-5	Manganese	61.2	N*	1	0.14	0.96	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7439-97-6	Mercury	0.0080	U	1	0.0080	0.015	mg/Kg	06/27/25 14:20	06/30/25 14:19	7471B	
7440-02-0	Nickel	8.04		1	0.13	1.93	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-09-7	Potassium	299		1	26.7	96.4	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7782-49-2	Selenium	3.85		1	0.25	0.96	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-22-4	Silver	0.69		1	0.12	0.48	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-23-5	Sodium	318		1	17.2	96.4	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-28-0	Thallium	0.22	U	1	0.22	1.93	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-62-2	Vanadium	12.2		1	0.24	1.93	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050
7440-66-6	Zinc	18.5		1	0.22	1.93	mg/Kg	06/27/25 13:05	07/01/25 18:44	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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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
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Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/26/25
Client Sample ID:	TP-82	SDG No.:	Q2436
Lab Sample ID:	Q2436-10	Matrix:	SOIL
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	1050		1	0.85	5.03	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-36-0	Antimony	0.22	UN	1	0.22	2.52	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-38-2	Arsenic	1.03		1	0.19	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-39-3	Barium	8.54	N	1	0.74	5.03	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-41-7	Beryllium	0.20	J	1	0.025	0.30	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-43-9	Cadmium	0.024	U	1	0.024	0.30	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-70-2	Calcium	174	N	1	11.2	101	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-47-3	Chromium	3.04		1	0.047	0.50	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-48-4	Cobalt	1.28	J*	1	0.10	1.51	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-50-8	Copper	0.86	J	1	0.22	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7439-89-6	Iron	7140		1	4.02	5.03	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7439-92-1	Lead	3.84		1	0.13	0.60	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7439-95-4	Magnesium	83.6	JN	1	12.1	101	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7439-96-5	Manganese	19.7	N*	1	0.14	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7439-97-6	Mercury	0.0080	U	1	0.0080	0.014	mg/Kg	06/27/25 14:20	06/30/25 14:22	7471B	
7440-02-0	Nickel	1.05	J	1	0.13	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-09-7	Potassium	45.1	J	1	27.9	101	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7782-49-2	Selenium	1.72		1	0.26	1.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-22-4	Silver	0.38	J	1	0.12	0.50	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-23-5	Sodium	171		1	17.9	101	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-28-0	Thallium	0.23	U	1	0.23	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-62-2	Vanadium	9.07		1	0.25	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050
7440-66-6	Zinc	6.28		1	0.23	2.01	mg/Kg	06/27/25 13:05	07/01/25 18:48	6010D	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
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METAL CALIBRATION DATA

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

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
ICV12	Mercury	3.64	4.0	91	90 - 110	CV	06/30/2025	13:29	LB136329

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

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
CCV36	Mercury	4.99	5.0	100	90 - 110	CV	06/30/2025	13:33	LB136329
CCV37	Mercury	5.08	5.0	102	90 - 110	CV	06/30/2025	14:03	LB136329
CCV38	Mercury	5.17	5.0	103	90 - 110	CV	06/30/2025	14:31	LB136329
CCV39	Mercury	5.00	5.0	100	90 - 110	CV	06/30/2025	14:57	LB136329

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	7650	8000	96	90 - 110	P	07/01/2025	13:30	LB136344
	Antimony	4240	4000	106	90 - 110	P	07/01/2025	13:30	LB136344
	Arsenic	4150	4000	104	90 - 110	P	07/01/2025	13:30	LB136344
	Barium	7710	8000	96	90 - 110	P	07/01/2025	13:30	LB136344
	Beryllium	195	200	97	90 - 110	P	07/01/2025	13:30	LB136344
	Cadmium	2040	2000	102	90 - 110	P	07/01/2025	13:30	LB136344
	Calcium	19100	20000	95	90 - 110	P	07/01/2025	13:30	LB136344
	Chromium	815	800	102	90 - 110	P	07/01/2025	13:30	LB136344
	Cobalt	2050	2000	102	90 - 110	P	07/01/2025	13:30	LB136344
	Copper	1050	1000	105	90 - 110	P	07/01/2025	13:30	LB136344
	Iron	4030	4000	101	90 - 110	P	07/01/2025	13:30	LB136344
	Lead	4000	4000	100	90 - 110	P	07/01/2025	13:30	LB136344
	Magnesium	18900	20000	95	90 - 110	P	07/01/2025	13:30	LB136344
	Manganese	1910	2000	96	90 - 110	P	07/01/2025	13:30	LB136344
	Nickel	2050	2000	103	90 - 110	P	07/01/2025	13:30	LB136344
	Potassium	20600	20000	103	90 - 110	P	07/01/2025	13:30	LB136344
	Selenium	4200	4000	105	90 - 110	P	07/01/2025	13:30	LB136344
	Silver	903	1000	90	90 - 110	P	07/01/2025	13:30	LB136344
	Sodium	20600	20000	103	90 - 110	P	07/01/2025	13:30	LB136344
	Thallium	3900	4000	98	90 - 110	P	07/01/2025	13:30	LB136344
	Vanadium	1900	2000	95	90 - 110	P	07/01/2025	13:30	LB136344
	Zinc	2050	2000	102	90 - 110	P	07/01/2025	13:30	LB136344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	99.9	100	100	80 - 120	P	07/01/2025	13:34	LB136344
	Antimony	51.6	50.0	103	80 - 120	P	07/01/2025	13:34	LB136344
	Arsenic	22.8	20.0	114	80 - 120	P	07/01/2025	13:34	LB136344
	Barium	91.3	100	91	80 - 120	P	07/01/2025	13:34	LB136344
	Beryllium	6.06	6.0	101	80 - 120	P	07/01/2025	13:34	LB136344
	Cadmium	5.90	6.0	98	80 - 120	P	07/01/2025	13:34	LB136344
	Calcium	1990	2000	99	80 - 120	P	07/01/2025	13:34	LB136344
	Chromium	10.7	10.0	107	80 - 120	P	07/01/2025	13:34	LB136344
	Cobalt	30.0	30.0	100	80 - 120	P	07/01/2025	13:34	LB136344
	Copper	21.3	20.0	107	80 - 120	P	07/01/2025	13:34	LB136344
	Iron	106	100	106	80 - 120	P	07/01/2025	13:34	LB136344
	Lead	12.0	12.0	100	80 - 120	P	07/01/2025	13:34	LB136344
	Magnesium	2030	2000	102	80 - 120	P	07/01/2025	13:34	LB136344
	Manganese	20.6	20.0	103	80 - 120	P	07/01/2025	13:34	LB136344
	Nickel	40.9	40.0	102	80 - 120	P	07/01/2025	13:34	LB136344
	Potassium	1980	2000	99	80 - 120	P	07/01/2025	13:34	LB136344
	Selenium	23.7	20.0	118	80 - 120	P	07/01/2025	13:34	LB136344
	Silver	9.72	10.0	97	80 - 120	P	07/01/2025	13:34	LB136344
	Sodium	2010	2000	101	80 - 120	P	07/01/2025	13:34	LB136344
	Thallium	41.3	40.0	103	80 - 120	P	07/01/2025	13:34	LB136344
	Vanadium	39.2	40.0	98	80 - 120	P	07/01/2025	13:34	LB136344
	Zinc	41.8	40.0	105	80 - 120	P	07/01/2025	13:34	LB136344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9760	10000	98	90 - 110	P	07/01/2025	14:09	LB136344
	Antimony	4990	5000	100	90 - 110	P	07/01/2025	14:09	LB136344
	Arsenic	5000	5000	100	90 - 110	P	07/01/2025	14:09	LB136344
	Barium	9930	10000	99	90 - 110	P	07/01/2025	14:09	LB136344
	Beryllium	244	250	97	90 - 110	P	07/01/2025	14:09	LB136344
	Cadmium	2500	2500	100	90 - 110	P	07/01/2025	14:09	LB136344
	Calcium	24300	25000	97	90 - 110	P	07/01/2025	14:09	LB136344
	Chromium	1010	1000	101	90 - 110	P	07/01/2025	14:09	LB136344
	Cobalt	2480	2500	99	90 - 110	P	07/01/2025	14:09	LB136344
	Copper	1250	1250	100	90 - 110	P	07/01/2025	14:09	LB136344
	Iron	5180	5000	104	90 - 110	P	07/01/2025	14:09	LB136344
	Lead	4980	5000	100	90 - 110	P	07/01/2025	14:09	LB136344
	Magnesium	24200	25000	97	90 - 110	P	07/01/2025	14:09	LB136344
	Manganese	2450	2500	98	90 - 110	P	07/01/2025	14:09	LB136344
	Nickel	2480	2500	99	90 - 110	P	07/01/2025	14:09	LB136344
	Potassium	25900	25000	104	90 - 110	P	07/01/2025	14:09	LB136344
	Selenium	5020	5000	100	90 - 110	P	07/01/2025	14:09	LB136344
	Silver	1270	1250	102	90 - 110	P	07/01/2025	14:09	LB136344
	Sodium	26100	25000	104	90 - 110	P	07/01/2025	14:09	LB136344
	Thallium	5050	5000	101	90 - 110	P	07/01/2025	14:09	LB136344
	Vanadium	2440	2500	98	90 - 110	P	07/01/2025	14:09	LB136344
	Zinc	2550	2500	102	90 - 110	P	07/01/2025	14:09	LB136344
CCV02	Aluminum	9380	10000	94	90 - 110	P	07/01/2025	15:42	LB136344
	Antimony	4900	5000	98	90 - 110	P	07/01/2025	15:42	LB136344
	Arsenic	4910	5000	98	90 - 110	P	07/01/2025	15:42	LB136344
	Barium	9330	10000	93	90 - 110	P	07/01/2025	15:42	LB136344
	Beryllium	230	250	92	90 - 110	P	07/01/2025	15:42	LB136344
	Cadmium	2400	2500	96	90 - 110	P	07/01/2025	15:42	LB136344
	Calcium	23200	25000	93	90 - 110	P	07/01/2025	15:42	LB136344
	Chromium	960	1000	96	90 - 110	P	07/01/2025	15:42	LB136344
	Cobalt	2390	2500	96	90 - 110	P	07/01/2025	15:42	LB136344
	Copper	1220	1250	98	90 - 110	P	07/01/2025	15:42	LB136344
	Iron	4960	5000	99	90 - 110	P	07/01/2025	15:42	LB136344
	Lead	4780	5000	96	90 - 110	P	07/01/2025	15:42	LB136344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	22900	25000	92	90 - 110	P	07/01/2025	15:42	LB136344
	Manganese	2370	2500	95	90 - 110	P	07/01/2025	15:42	LB136344
	Nickel	2400	2500	96	90 - 110	P	07/01/2025	15:42	LB136344
	Potassium	25000	25000	100	90 - 110	P	07/01/2025	15:42	LB136344
	Selenium	4950	5000	99	90 - 110	P	07/01/2025	15:42	LB136344
	Silver	1220	1250	98	90 - 110	P	07/01/2025	15:42	LB136344
	Sodium	25900	25000	104	90 - 110	P	07/01/2025	15:42	LB136344
	Thallium	4660	5000	93	90 - 110	P	07/01/2025	15:42	LB136344
	Vanadium	2340	2500	94	90 - 110	P	07/01/2025	15:42	LB136344
	Zinc	2470	2500	99	90 - 110	P	07/01/2025	15:42	LB136344
CCV03	Aluminum	9310	10000	93	90 - 110	P	07/01/2025	16:37	LB136344
	Antimony	4960	5000	99	90 - 110	P	07/01/2025	16:37	LB136344
	Arsenic	4900	5000	98	90 - 110	P	07/01/2025	16:37	LB136344
	Barium	9410	10000	94	90 - 110	P	07/01/2025	16:37	LB136344
	Beryllium	228	250	91	90 - 110	P	07/01/2025	16:37	LB136344
	Cadmium	2350	2500	94	90 - 110	P	07/01/2025	16:37	LB136344
	Calcium	23100	25000	93	90 - 110	P	07/01/2025	16:37	LB136344
	Chromium	941	1000	94	90 - 110	P	07/01/2025	16:37	LB136344
	Cobalt	2370	2500	95	90 - 110	P	07/01/2025	16:37	LB136344
	Copper	1200	1250	96	90 - 110	P	07/01/2025	16:37	LB136344
	Iron	4810	5000	96	90 - 110	P	07/01/2025	16:37	LB136344
	Lead	4730	5000	94	90 - 110	P	07/01/2025	16:37	LB136344
	Magnesium	24400	25000	97	90 - 110	P	07/01/2025	16:37	LB136344
	Manganese	2340	2500	94	90 - 110	P	07/01/2025	16:37	LB136344
	Nickel	2370	2500	95	90 - 110	P	07/01/2025	16:37	LB136344
	Potassium	24200	25000	97	90 - 110	P	07/01/2025	16:37	LB136344
	Selenium	4980	5000	100	90 - 110	P	07/01/2025	16:37	LB136344
	Silver	1210	1250	96	90 - 110	P	07/01/2025	16:37	LB136344
	Sodium	25900	25000	103	90 - 110	P	07/01/2025	16:37	LB136344
	Thallium	4740	5000	95	90 - 110	P	07/01/2025	16:37	LB136344
	Vanadium	2310	2500	93	90 - 110	P	07/01/2025	16:37	LB136344
	Zinc	2440	2500	98	90 - 110	P	07/01/2025	16:37	LB136344
CCV04	Aluminum	9450	10000	94	90 - 110	P	07/01/2025	17:26	LB136344
	Antimony	5160	5000	103	90 - 110	P	07/01/2025	17:26	LB136344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5110	5000	102	90 - 110	P	07/01/2025	17:26	LB136344
	Barium	9520	10000	95	90 - 110	P	07/01/2025	17:26	LB136344
	Beryllium	230	250	92	90 - 110	P	07/01/2025	17:26	LB136344
	Cadmium	2380	2500	95	90 - 110	P	07/01/2025	17:26	LB136344
	Calcium	23600	25000	94	90 - 110	P	07/01/2025	17:26	LB136344
	Chromium	932	1000	93	90 - 110	P	07/01/2025	17:26	LB136344
	Cobalt	2400	2500	96	90 - 110	P	07/01/2025	17:26	LB136344
	Copper	1230	1250	99	90 - 110	P	07/01/2025	17:26	LB136344
	Iron	4740	5000	95	90 - 110	P	07/01/2025	17:26	LB136344
	Lead	4780	5000	96	90 - 110	P	07/01/2025	17:26	LB136344
	Magnesium	24700	25000	99	90 - 110	P	07/01/2025	17:26	LB136344
	Manganese	2390	2500	96	90 - 110	P	07/01/2025	17:26	LB136344
	Nickel	2400	2500	96	90 - 110	P	07/01/2025	17:26	LB136344
	Potassium	24000	25000	96	90 - 110	P	07/01/2025	17:26	LB136344
	Selenium	5250	5000	105	90 - 110	P	07/01/2025	17:26	LB136344
	Silver	1200	1250	96	90 - 110	P	07/01/2025	17:26	LB136344
	Sodium	26000	25000	104	90 - 110	P	07/01/2025	17:26	LB136344
	Thallium	4820	5000	96	90 - 110	P	07/01/2025	17:26	LB136344
	Vanadium	2360	2500	94	90 - 110	P	07/01/2025	17:26	LB136344
	Zinc	2420	2500	97	90 - 110	P	07/01/2025	17:26	LB136344
CCV05	Aluminum	9530	10000	95	90 - 110	P	07/01/2025	18:27	LB136344
	Antimony	5380	5000	108	90 - 110	P	07/01/2025	18:27	LB136344
	Arsenic	5290	5000	106	90 - 110	P	07/01/2025	18:27	LB136344
	Barium	9750	10000	98	90 - 110	P	07/01/2025	18:27	LB136344
	Beryllium	231	250	92	90 - 110	P	07/01/2025	18:27	LB136344
	Cadmium	2410	2500	97	90 - 110	P	07/01/2025	18:27	LB136344
	Calcium	23500	25000	94	90 - 110	P	07/01/2025	18:27	LB136344
	Chromium	949	1000	95	90 - 110	P	07/01/2025	18:27	LB136344
	Cobalt	2450	2500	98	90 - 110	P	07/01/2025	18:27	LB136344
	Copper	1270	1250	102	90 - 110	P	07/01/2025	18:27	LB136344
	Iron	4990	5000	100	90 - 110	P	07/01/2025	18:27	LB136344
	Lead	4870	5000	97	90 - 110	P	07/01/2025	18:27	LB136344
	Magnesium	24600	25000	98	90 - 110	P	07/01/2025	18:27	LB136344
	Manganese	2400	2500	96	90 - 110	P	07/01/2025	18:27	LB136344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2450	2500	98	90 - 110	P	07/01/2025	18:27	LB136344
	Potassium	25100	25000	100	90 - 110	P	07/01/2025	18:27	LB136344
	Selenium	5440	5000	109	90 - 110	P	07/01/2025	18:27	LB136344
	Silver	1240	1250	99	90 - 110	P	07/01/2025	18:27	LB136344
	Sodium	27300	25000	109	90 - 110	P	07/01/2025	18:27	LB136344
	Thallium	4780	5000	96	90 - 110	P	07/01/2025	18:27	LB136344
	Vanadium	2370	2500	95	90 - 110	P	07/01/2025	18:27	LB136344
	Zinc	2530	2500	101	90 - 110	P	07/01/2025	18:27	LB136344
CCV06	Aluminum	9270	10000	93	90 - 110	P	07/01/2025	20:05	LB136344
	Antimony	5250	5000	105	90 - 110	P	07/01/2025	20:05	LB136344
	Arsenic	5150	5000	103	90 - 110	P	07/01/2025	20:05	LB136344
	Barium	9560	10000	96	90 - 110	P	07/01/2025	20:05	LB136344
	Beryllium	234	250	94	90 - 110	P	07/01/2025	20:05	LB136344
	Cadmium	2320	2500	93	90 - 110	P	07/01/2025	20:05	LB136344
	Calcium	23100	25000	92	90 - 110	P	07/01/2025	20:05	LB136344
	Chromium	918	1000	92	90 - 110	P	07/01/2025	20:05	LB136344
	Cobalt	2370	2500	95	90 - 110	P	07/01/2025	20:05	LB136344
	Copper	1230	1250	98	90 - 110	P	07/01/2025	20:05	LB136344
	Iron	4810	5000	96	90 - 110	P	07/01/2025	20:05	LB136344
	Lead	4670	5000	94	90 - 110	P	07/01/2025	20:05	LB136344
	Magnesium	22500	25000	90	90 - 110	P	07/01/2025	20:05	LB136344
	Manganese	2340	2500	94	90 - 110	P	07/01/2025	20:05	LB136344
	Nickel	2360	2500	94	90 - 110	P	07/01/2025	20:05	LB136344
	Potassium	24300	25000	97	90 - 110	P	07/01/2025	20:05	LB136344
	Selenium	5310	5000	106	90 - 110	P	07/01/2025	20:05	LB136344
	Silver	1200	1250	96	90 - 110	P	07/01/2025	20:05	LB136344
	Sodium	24900	25000	100	90 - 110	P	07/01/2025	20:05	LB136344
	Thallium	4600	5000	92	90 - 110	P	07/01/2025	20:05	LB136344
	Vanadium	2330	2500	93	90 - 110	P	07/01/2025	20:05	LB136344
	Zinc	2430	2500	97	90 - 110	P	07/01/2025	20:05	LB136344
CCV07	Aluminum	9140	10000	91	90 - 110	P	07/01/2025	21:22	LB136344
	Antimony	4990	5000	100	90 - 110	P	07/01/2025	21:22	LB136344
	Arsenic	4870	5000	98	90 - 110	P	07/01/2025	21:22	LB136344
	Barium	9540	10000	95	90 - 110	P	07/01/2025	21:22	LB136344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	227	250	91	90 - 110	P	07/01/2025	21:22	LB136344
	Cadmium	2290	2500	92	90 - 110	P	07/01/2025	21:22	LB136344
	Calcium	22800	25000	91	90 - 110	P	07/01/2025	21:22	LB136344
	Chromium	933	1000	93	90 - 110	P	07/01/2025	21:22	LB136344
	Cobalt	2330	2500	93	90 - 110	P	07/01/2025	21:22	LB136344
	Copper	1190	1250	95	90 - 110	P	07/01/2025	21:22	LB136344
	Iron	5110	5000	102	90 - 110	P	07/01/2025	21:22	LB136344
	Lead	4610	5000	92	90 - 110	P	07/01/2025	21:22	LB136344
	Magnesium	24000	25000	96	90 - 110	P	07/01/2025	21:22	LB136344
	Manganese	2300	2500	92	90 - 110	P	07/01/2025	21:22	LB136344
	Nickel	2320	2500	93	90 - 110	P	07/01/2025	21:22	LB136344
	Potassium	25600	25000	102	90 - 110	P	07/01/2025	21:22	LB136344
	Selenium	4970	5000	99	90 - 110	P	07/01/2025	21:22	LB136344
	Silver	1220	1250	98	90 - 110	P	07/01/2025	21:22	LB136344
	Sodium	27400	25000	110	90 - 110	P	07/01/2025	21:22	LB136344
	Thallium	4600	5000	92	90 - 110	P	07/01/2025	21:22	LB136344
	Vanadium	2300	2500	92	90 - 110	P	07/01/2025	21:22	LB136344
	Zinc	2480	2500	99	90 - 110	P	07/01/2025	21:22	LB136344
CCV08	Aluminum	9280	10000	93	90 - 110	P	07/01/2025	21:50	LB136344
	Antimony	5110	5000	102	90 - 110	P	07/01/2025	21:50	LB136344
	Arsenic	5040	5000	101	90 - 110	P	07/01/2025	21:50	LB136344
	Barium	9530	10000	95	90 - 110	P	07/01/2025	21:50	LB136344
	Beryllium	238	250	95	90 - 110	P	07/01/2025	21:50	LB136344
	Cadmium	2350	2500	94	90 - 110	P	07/01/2025	21:50	LB136344
	Calcium	23100	25000	92	90 - 110	P	07/01/2025	21:50	LB136344
	Chromium	939	1000	94	90 - 110	P	07/01/2025	21:50	LB136344
	Cobalt	2370	2500	95	90 - 110	P	07/01/2025	21:50	LB136344
	Copper	1230	1250	98	90 - 110	P	07/01/2025	21:50	LB136344
	Iron	5080	5000	102	90 - 110	P	07/01/2025	21:50	LB136344
	Lead	4690	5000	94	90 - 110	P	07/01/2025	21:50	LB136344
	Magnesium	23500	25000	94	90 - 110	P	07/01/2025	21:50	LB136344
	Manganese	2320	2500	93	90 - 110	P	07/01/2025	21:50	LB136344
	Nickel	2370	2500	95	90 - 110	P	07/01/2025	21:50	LB136344
	Potassium	25700	25000	103	90 - 110	P	07/01/2025	21:50	LB136344

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	5170	5000	103	90 - 110	P	07/01/2025	21:50	LB136344
	Silver	1230	1250	98	90 - 110	P	07/01/2025	21:50	LB136344
	Sodium	23900	25000	96	90 - 110	P	07/01/2025	21:50	LB136344
	Thallium	4710	5000	94	90 - 110	P	07/01/2025	21:50	LB136344
	Vanadium	2330	2500	93	90 - 110	P	07/01/2025	21:50	LB136344
	Zinc	2530	2500	101	90 - 110	P	07/01/2025	21:50	LB136344

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Metals

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CRDL STANDARD FOR AA & ICP

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

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	0.18	0.2	89	70 - 130	CV	06/30/2025	13:38	LB136329
CRI01	Aluminum	95.2	100	95	65 - 135	P	07/01/2025	13:48	LB136344
	Antimony	49.5	50.0	99	65 - 135	P	07/01/2025	13:48	LB136344
	Arsenic	23.6	20.0	118	65 - 135	P	07/01/2025	13:48	LB136344
	Barium	87.2	100	87	65 - 135	P	07/01/2025	13:48	LB136344
	Beryllium	5.86	6.0	98	65 - 135	P	07/01/2025	13:48	LB136344
	Cadmium	5.88	6.0	98	65 - 135	P	07/01/2025	13:48	LB136344
	Calcium	1970	2000	99	65 - 135	P	07/01/2025	13:48	LB136344
	Chromium	10.7	10.0	107	65 - 135	P	07/01/2025	13:48	LB136344
	Cobalt	30.0	30.0	100	65 - 135	P	07/01/2025	13:48	LB136344
	Copper	21.5	20.0	107	65 - 135	P	07/01/2025	13:48	LB136344
	Iron	111	100	111	65 - 135	P	07/01/2025	13:48	LB136344
	Lead	11.1	12.0	93	65 - 135	P	07/01/2025	13:48	LB136344
	Magnesium	2030	2000	101	65 - 135	P	07/01/2025	13:48	LB136344
	Manganese	19.7	20.0	98	65 - 135	P	07/01/2025	13:48	LB136344
	Nickel	40.7	40.0	102	65 - 135	P	07/01/2025	13:48	LB136344
	Potassium	2100	2000	105	65 - 135	P	07/01/2025	13:48	LB136344
	Selenium	18.4	20.0	92	65 - 135	P	07/01/2025	13:48	LB136344
	Silver	9.62	10.0	96	65 - 135	P	07/01/2025	13:48	LB136344
	Sodium	2070	2000	104	65 - 135	P	07/01/2025	13:48	LB136344
	Thallium	41.5	40.0	104	65 - 135	P	07/01/2025	13:48	LB136344
	Vanadium	38.8	40.0	97	65 - 135	P	07/01/2025	13:48	LB136344
	Zinc	41.6	40.0	104	65 - 135	P	07/01/2025	13:48	LB136344

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB12	Mercury	0.076	+/-0.2	U	0.20	CV	06/30/2025	13:31	LB136329

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB36	Mercury	0.076	+/-0.2	U	0.20	CV	06/30/2025	13:36	LB136329
CCB37	Mercury	0.076	+/-0.2	U	0.20	CV	06/30/2025	14:06	LB136329
CCB38	Mercury	0.076	+/-0.2	U	0.20	CV	06/30/2025	14:33	LB136329
CCB39	Mercury	0.076	+/-0.2	U	0.20	CV	06/30/2025	15:00	LB136329

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	24.7	+/-50	J	100	P	07/01/2025	13:38	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	13:38	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	13:38	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	13:38	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	13:38	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	13:38	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	13:38	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	13:38	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	13:38	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	13:38	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	13:38	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	13:38	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	13:38	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	13:38	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	13:38	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	13:38	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	13:38	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	13:38	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	13:38	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	13:38	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	13:38	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	13:38	LB136344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

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	07/01/2025	14:23	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	14:23	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	14:23	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	14:23	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	14:23	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	14:23	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	14:23	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	14:23	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	14:23	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	14:23	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	14:23	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	14:23	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	14:23	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	14:23	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	14:23	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	14:23	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	14:23	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	14:23	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	14:23	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	14:23	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	14:23	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	14:23	LB136344
CCB02	Aluminum	11.3	+/-50	U	100	P	07/01/2025	15:46	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	15:46	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	15:46	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	15:46	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	15:46	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	15:46	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	15:46	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	15:46	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	15:46	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	15:46	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	15:46	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	15:46	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	15:46	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	15:46	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	15:46	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	15:46	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	15:46	LB136344

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

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	07/01/2025	15:46	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	15:46	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	15:46	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	15:46	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	15:46	LB136344
CCB03	Aluminum	11.3	+/-50	U	100	P	07/01/2025	16:42	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	16:42	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	16:42	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	16:42	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	16:42	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	16:42	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	16:42	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	16:42	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	16:42	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	16:42	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	16:42	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	16:42	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	16:42	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	16:42	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	16:42	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	16:42	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	16:42	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	16:42	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	16:42	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	16:42	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	16:42	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	16:42	LB136344
CCB04	Aluminum	11.3	+/-50	U	100	P	07/01/2025	17:30	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	17:30	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	17:30	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	17:30	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	17:30	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	17:30	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	17:30	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	17:30	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	17:30	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	17:30	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	17:30	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	17:30	LB136344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

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	07/01/2025	17:30	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	17:30	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	17:30	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	17:30	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	17:30	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	17:30	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	17:30	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	17:30	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	17:30	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	17:30	LB136344
CCB05	Aluminum	11.3	+/-50	U	100	P	07/01/2025	18:39	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	18:39	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	18:39	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	18:39	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	18:39	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	18:39	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	18:39	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	18:39	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	18:39	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	18:39	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	18:39	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	18:39	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	18:39	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	18:39	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	18:39	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	18:39	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	18:39	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	18:39	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	18:39	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	18:39	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	18:39	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	18:39	LB136344
CCB06	Aluminum	11.3	+/-50	U	100	P	07/01/2025	20:34	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	20:34	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	20:34	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	20:34	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	20:34	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	20:34	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	20:34	LB136344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

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	07/01/2025	20:34	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	20:34	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	20:34	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	20:34	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	20:34	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	20:34	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	20:34	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	20:34	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	20:34	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	20:34	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	20:34	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	20:34	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	20:34	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	20:34	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	20:34	LB136344
CCB07	Aluminum	11.3	+/-50	U	100	P	07/01/2025	21:27	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	21:27	LB136344
	Arsenic	5.12	+/-10	U	20.0	P	07/01/2025	21:27	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	21:27	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	21:27	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	21:27	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	21:27	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	21:27	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	21:27	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	21:27	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	21:27	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	21:27	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	21:27	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	21:27	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	21:27	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	21:27	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	21:27	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	21:27	LB136344
	Sodium	943	+/-1000	J	2000	P	07/01/2025	21:27	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	21:27	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	21:27	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	21:27	LB136344
CCB08	Aluminum	11.3	+/-50	U	100	P	07/01/2025	21:54	LB136344
	Antimony	6.76	+/-25	U	50.0	P	07/01/2025	21:54	LB136344

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

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	07/01/2025	21:54	LB136344
	Barium	14.6	+/-50	U	100	P	07/01/2025	21:54	LB136344
	Beryllium	0.56	+/-3	U	6.00	P	07/01/2025	21:54	LB136344
	Cadmium	0.50	+/-3	U	6.00	P	07/01/2025	21:54	LB136344
	Calcium	234	+/-1000	U	2000	P	07/01/2025	21:54	LB136344
	Chromium	2.12	+/-5	U	10.0	P	07/01/2025	21:54	LB136344
	Cobalt	2.26	+/-15	U	30.0	P	07/01/2025	21:54	LB136344
	Copper	4.60	+/-10	U	20.0	P	07/01/2025	21:54	LB136344
	Iron	23.4	+/-50	U	100	P	07/01/2025	21:54	LB136344
	Lead	2.30	+/-6	U	12.0	P	07/01/2025	21:54	LB136344
	Magnesium	244	+/-1000	U	2000	P	07/01/2025	21:54	LB136344
	Manganese	5.94	+/-10	U	20.0	P	07/01/2025	21:54	LB136344
	Nickel	3.06	+/-20	U	40.0	P	07/01/2025	21:54	LB136344
	Potassium	918	+/-1000	U	2000	P	07/01/2025	21:54	LB136344
	Selenium	9.64	+/-10	U	20.0	P	07/01/2025	21:54	LB136344
	Silver	1.62	+/-5	U	10.0	P	07/01/2025	21:54	LB136344
	Sodium	868	+/-1000	U	2000	P	07/01/2025	21:54	LB136344
	Thallium	4.38	+/-20	U	40.0	P	07/01/2025	21:54	LB136344
	Vanadium	6.26	+/-20	U	40.0	P	07/01/2025	21:54	LB136344
	Zinc	16.7	+/-20	U	40.0	P	07/01/2025	21:54	LB136344

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168665BL		**SOLID**		**Batch Number:**	**PB168665**		**Prep Date:**	**06/27/2025**	
	Mercury	0.0080	<0.014	U	0.014	CV	06/30/2025	13:48	LB136329

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB168648BL		**SOLID**		**Batch Number:**	**PB168648**		**Prep Date:**	**06/27/2025**	
	Aluminum	0.84	<2.5	U	5.00	P	07/01/2025	16:21	LB136344
	Antimony	0.22	<1.25	U	2.50	P	07/01/2025	16:21	LB136344
	Arsenic	0.19	<0.5	U	1.00	P	07/01/2025	16:21	LB136344
	Barium	0.73	<2.5	U	5.00	P	07/01/2025	16:21	LB136344
	Beryllium	0.025	<0.15	U	0.30	P	07/01/2025	16:21	LB136344
	Cadmium	0.024	<0.15	U	0.30	P	07/01/2025	16:21	LB136344
	Calcium	11.1	<50	U	100	P	07/01/2025	16:21	LB136344
	Chromium	0.047	<0.25	U	0.50	P	07/01/2025	16:21	LB136344
	Cobalt	0.10	<0.75	U	1.50	P	07/01/2025	16:21	LB136344
	Copper	0.22	<0.5	U	1.00	P	07/01/2025	16:21	LB136344
	Iron	3.99	<2.5	U	5.00	P	07/01/2025	16:21	LB136344
	Lead	0.13	<0.3	U	0.60	P	07/01/2025	16:21	LB136344
	Magnesium	12.0	<50	U	100	P	07/01/2025	16:21	LB136344
	Manganese	0.14	<0.5	U	1.00	P	07/01/2025	16:21	LB136344
	Nickel	0.13	<1	U	2.00	P	07/01/2025	16:21	LB136344
	Potassium	27.7	<50	U	100	P	07/01/2025	16:21	LB136344
	Selenium	0.26	<0.5	U	1.00	P	07/01/2025	16:21	LB136344
	Silver	0.12	<0.25	U	0.50	P	07/01/2025	16:21	LB136344
	Sodium	17.8	<50	U	100	P	07/01/2025	16:21	LB136344
	Thallium	0.23	<1	U	2.00	P	07/01/2025	16:21	LB136344
	Vanadium	0.25	<1	U	2.00	P	07/01/2025	16:21	LB136344
	Zinc	0.23	<1	U	2.00	P	07/01/2025	16:21	LB136344

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	237000	255000	93	216000	294000	07/01/2025	13:52	LB136344
	Antimony	3.01			-50	50	07/01/2025	13:52	LB136344
	Arsenic	0.28			-20	20	07/01/2025	13:52	LB136344
	Barium	-3.18	6.0	53	-94	106	07/01/2025	13:52	LB136344
	Beryllium	1.03			-6	6	07/01/2025	13:52	LB136344
	Cadmium	-4.49	1.0	449	-5	7	07/01/2025	13:52	LB136344
	Calcium	228000	245000	93	208000	282000	07/01/2025	13:52	LB136344
	Chromium	58.9	52.0	113	42	62	07/01/2025	13:52	LB136344
	Cobalt	0.56			-30	30	07/01/2025	13:52	LB136344
	Copper	-12.2	2.0	610	-18	22	07/01/2025	13:52	LB136344
	Iron	101000	101000	100	85600	116500	07/01/2025	13:52	LB136344
	Lead	-9.53			-12	12	07/01/2025	13:52	LB136344
	Magnesium	237000	255000	93	216000	294000	07/01/2025	13:52	LB136344
	Manganese	4.50	7.0	64	-13	27	07/01/2025	13:52	LB136344
	Nickel	11.6	2.0	580	-38	42	07/01/2025	13:52	LB136344
	Potassium	53.6			0	0	07/01/2025	13:52	LB136344
	Selenium	4.84			-20	20	07/01/2025	13:52	LB136344
	Silver	-2.15			-10	10	07/01/2025	13:52	LB136344
	Sodium	46.2			0	0	07/01/2025	13:52	LB136344
	Thallium	3.45			-40	40	07/01/2025	13:52	LB136344
	Vanadium	1.97			-40	40	07/01/2025	13:52	LB136344
	Zinc	1.98			-40	40	07/01/2025	13:52	LB136344
ICSAB01	Aluminum	236000	247000	96	209000	285000	07/01/2025	13:56	LB136344
	Antimony	620	618	100	525	711	07/01/2025	13:56	LB136344
	Arsenic	101	104	97	88.4	120	07/01/2025	13:56	LB136344
	Barium	468	537	87	437	637	07/01/2025	13:56	LB136344
	Beryllium	468	495	94	420	570	07/01/2025	13:56	LB136344
	Cadmium	970	972	100	826	1120	07/01/2025	13:56	LB136344
	Calcium	227000	235000	97	199000	271000	07/01/2025	13:56	LB136344
	Chromium	552	542	102	460	624	07/01/2025	13:56	LB136344
	Cobalt	491	476	103	404	548	07/01/2025	13:56	LB136344
	Copper	475	511	93	434	588	07/01/2025	13:56	LB136344
	Iron	100000	99300	101	84400	114500	07/01/2025	13:56	LB136344
	Lead	38.6	49.0	79	37	61	07/01/2025	13:56	LB136344
	Magnesium	235000	248000	95	210000	286000	07/01/2025	13:56	LB136344
	Manganese	483	507	95	430	584	07/01/2025	13:56	LB136344
	Nickel	981	954	103	810	1100	07/01/2025	13:56	LB136344
	Potassium	14.0			0	0	07/01/2025	13:56	LB136344
	Selenium	56.7	46.0	123	26	66	07/01/2025	13:56	LB136344
	Silver	229	201	114	170	232	07/01/2025	13:56	LB136344
	Sodium	51.9			0	0	07/01/2025	13:56	LB136344
	Thallium	91.9	108	85	68	148	07/01/2025	13:56	LB136344

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Metals
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INTERFERENCE CHECK SAMPLE

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	475	491	97	417	565	07/01/2025	13:56	LB136344
	Zinc	1030	952	108	809	1095	07/01/2025	13:56	LB136344

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2436

contract: CAMP02 **lab code:** CHEM **case no.:** Q2436 **sas no.:** Q2436

matrix: Solid **sample id:** Q2436-10 **client id:** TP-82MS

Percent Solids for Sample: 92 **Spiked ID:** Q2436-10MS **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	1640		1050		100	591		P
Antimony	mg/Kg	75 - 125	25.1		2.52	U	40.4	62	N	P
Arsenic	mg/Kg	75 - 125	36.5		1.03		40.4	88		P
Barium	mg/Kg	75 - 125	19.8		8.54		10.1	111		P
Beryllium	mg/Kg	75 - 125	8.33		0.20	J	10.1	81		P
Cadmium	mg/Kg	75 - 125	8.84		0.30	U	10.1	88		P
Calcium	mg/Kg	75 - 125	173		174		50.6	-2	N	P
Chromium	mg/Kg	75 - 125	20.3		3.04		20.2	85		P
Cobalt	mg/Kg	75 - 125	10.9		1.28	J	10.1	95		P
Copper	mg/Kg	75 - 125	14.5		0.86	J	15.2	90		P
Iron	mg/Kg	75 - 125	6950		7140		150	-124		P
Lead	mg/Kg	75 - 125	50.1		3.84		50.6	91		P
Magnesium	mg/Kg	75 - 125	133		83.6	J	100	49	N	P
Manganese	mg/Kg	75 - 125	28.8		19.7		10.1	90		P
Nickel	mg/Kg	75 - 125	25.1		1.05	J	25.3	95		P
Potassium	mg/Kg	75 - 125	501		45.1	J	510	89		P
Selenium	mg/Kg	75 - 125	90.4		1.72		100	89		P
Silver	mg/Kg	75 - 125	3.63		0.38	J	3.8	85		P
Sodium	mg/Kg	75 - 125	346		171		150	116		P
Thallium	mg/Kg	75 - 125	93.4		2.01	U	100	93		P
Vanadium	mg/Kg	75 - 125	21.7		9.07		15.2	83		P
Zinc	mg/Kg	75 - 125	16.4		6.28		10.1	100		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2436

contract: CAMP02 **lab code:** CHEM **case no.:** Q2436 **sas no.:** Q2436

matrix: Solid **sample id:** Q2436-10 **client id:** TP-82MSD

Percent Solids for Sample: 92 **Spiked ID:** Q2436-10MSD **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	1810		1050		96.2	796		P
Antimony	mg/Kg	75 - 125	23.1		2.52	U	38.5	60	N	P
Arsenic	mg/Kg	75 - 125	36.5		1.03		38.5	92		P
Barium	mg/Kg	75 - 125	22.1		8.54		9.6	141	N	P
Beryllium	mg/Kg	75 - 125	8.13		0.20	J	9.6	83		P
Cadmium	mg/Kg	75 - 125	8.76		0.30	U	9.6	91		P
Calcium	mg/Kg	75 - 125	198		174		48.1	50	N	P
Chromium	mg/Kg	75 - 125	20.5		3.04		19.2	91		P
Cobalt	mg/Kg	75 - 125	12.1		1.28	J	9.6	112		P
Copper	mg/Kg	75 - 125	14.8		0.86	J	14.4	97		P
Iron	mg/Kg	75 - 125	7690		7140		140	396		P
Lead	mg/Kg	75 - 125	50.3		3.84		48.1	97		P
Magnesium	mg/Kg	75 - 125	143		83.6	J	96.2	61	N	P
Manganese	mg/Kg	75 - 125	46.6		19.7		9.6	280	N	P
Nickel	mg/Kg	75 - 125	25.1		1.05	J	24.0	100		P
Potassium	mg/Kg	75 - 125	506		45.1	J	480	96		P
Selenium	mg/Kg	75 - 125	89.7		1.72		96.2	91		P
Silver	mg/Kg	75 - 125	3.69		0.38	J	3.6	92		P
Sodium	mg/Kg	75 - 125	334		171		140	117		P
Thallium	mg/Kg	75 - 125	91.1		2.01	U	96.2	95		P
Vanadium	mg/Kg	75 - 125	24.5		9.07		14.4	107		P
Zinc	mg/Kg	75 - 125	17.8		6.28		9.6	120		P

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metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2436

contract: CAMP02 **lab code:** CHEM **case no.:** Q2436 **sas no.:** Q2436

matrix: Solid **sample id:** Q2452-05 **client id:** EP-2MS

Percent Solids for Sample: 87 **Spiked ID:** Q2452-05MS **Percent Solids for Spike Sample:** 87

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.29		0.017		0.28	96		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2436

contract: CAMP02 **lab code:** CHEM **case no.:** Q2436 **sas no.:** Q2436

matrix: Solid **sample id:** Q2452-05 **client id:** EP-2MSD

Percent Solids for Sample: 87 **Spiked ID:** Q2452-05MSD **Percent Solids for Spike Sample:** 87

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.33		0.017		0.31	102		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Matrix: Solid **Level:** LOW **Client ID:** TP-82A

Sample ID: Q2436-10 **Spiked ID:** Q2436-10A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	38.7		2.52	U	40.3	96		P
Barium	mg/Kg	75 - 125	17.2		8.54		10.1	85		P
Calcium	mg/Kg	75 - 125	217		174		50.3	86		P
Magnesium	mg/Kg	75 - 125	171		83.6	J	100	87		P
Manganese	mg/Kg	75 - 125	24.5		19.7		10.1	47	N	P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Matrix: Solid **Sample ID:** Q2436-10 **Client ID:** TP-82DUP

Percent Solids for Sample: 92 **Duplicate ID** Q2436-10DUP **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	1050		961		9		P
Antimony	mg/Kg	20	2.52	U	2.31	U			P
Arsenic	mg/Kg	20	1.03		1.03		0		P
Barium	mg/Kg	20	8.54		7.90		8		P
Beryllium	mg/Kg	20	0.20	J	0.20	J	0		P
Cadmium	mg/Kg	20	0.30	U	0.28	U			P
Calcium	mg/Kg	20	174		160		8		P
Chromium	mg/Kg	20	3.04		2.71		11		P
Cobalt	mg/Kg	20	1.28	J	1.60		22	*	P
Copper	mg/Kg	20	0.86	J	0.78	J	10		P
Iron	mg/Kg	20	7140		6690		7		P
Lead	mg/Kg	20	3.84		4.04		5		P
Magnesium	mg/Kg	20	83.6	J	71.3	J	16		P
Manganese	mg/Kg	20	19.7		25.6		26	*	P
Nickel	mg/Kg	20	1.05	J	1.01	J	4		P
Potassium	mg/Kg	20	45.1	J	44.7	J	1		P
Selenium	mg/Kg	20	1.72		1.52		12		P
Silver	mg/Kg	20	0.38	J	0.35	J	10		P
Sodium	mg/Kg	20	171		165		4		P
Thallium	mg/Kg	20	2.01	U	1.85	U			P
Vanadium	mg/Kg	20	9.07		8.77		3		P
Zinc	mg/Kg	20	6.28		6.10		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Matrix: Solid **Sample ID:** Q2436-10MS **Client ID:** TP-82MSD

Percent Solids for Sample: 92 **Duplicate ID** Q2436-10MSD **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	1640		1810		10		P
Antimony	mg/Kg	20	25.1		23.1		8		P
Arsenic	mg/Kg	20	36.5		36.5		0		P
Barium	mg/Kg	20	19.8		22.1		11		P
Beryllium	mg/Kg	20	8.33		8.13		2		P
Cadmium	mg/Kg	20	8.84		8.76		1		P
Calcium	mg/Kg	20	173		198		13		P
Chromium	mg/Kg	20	20.3		20.5		1		P
Cobalt	mg/Kg	20	10.9		12.1		10		P
Copper	mg/Kg	20	14.5		14.8		2		P
Iron	mg/Kg	20	6950		7690		10		P
Lead	mg/Kg	20	50.1		50.3		0		P
Magnesium	mg/Kg	20	133		143		7		P
Manganese	mg/Kg	20	28.8		46.6		47	*	P
Nickel	mg/Kg	20	25.1		25.1		0		P
Potassium	mg/Kg	20	501		506		1		P
Selenium	mg/Kg	20	90.4		89.7		1		P
Silver	mg/Kg	20	3.63		3.69		2		P
Sodium	mg/Kg	20	346		334		4		P
Thallium	mg/Kg	20	93.4		91.1		2		P
Vanadium	mg/Kg	20	21.7		24.5		12		P
Zinc	mg/Kg	20	16.4		17.8		8		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Matrix: Solid **Sample ID:** Q2452-05 **Client ID:** EP-2DUP

Percent Solids for Sample: 87 **Duplicate ID** Q2452-05DUP **Percent Solids for Spike Sample:** 87

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.017		0.018		6		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: CDM Smith **Level:** LOW **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Matrix: Solid **Sample ID:** Q2452-05MS **Client ID:** EP-2MSD

Percent Solids for Sample: 87 **Duplicate ID** Q2452-05MSD **Percent Solids for Spike Sample:** 87

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.29		0.33		15		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168648BS							
Aluminum	mg/Kg	100	91.1		91	80 - 120	P
Antimony	mg/Kg	40.0	38.9		97	80 - 120	P
Arsenic	mg/Kg	40.0	37.5		94	80 - 120	P
Barium	mg/Kg	10.0	8.43		84	80 - 120	P
Beryllium	mg/Kg	10.0	9.28		93	80 - 120	P
Cadmium	mg/Kg	10.0	9.19		92	80 - 120	P
Calcium	mg/Kg	50.0	46.8	J	94	80 - 120	P
Chromium	mg/Kg	20.0	19.0		95	80 - 120	P
Cobalt	mg/Kg	10.0	9.41		94	80 - 120	P
Copper	mg/Kg	15.0	14.8		99	80 - 120	P
Iron	mg/Kg	150	142		95	80 - 120	P
Lead	mg/Kg	50.0	46.1		92	80 - 120	P
Magnesium	mg/Kg	100	91.5	J	92	80 - 120	P
Manganese	mg/Kg	10.0	9.41		94	80 - 120	P
Nickel	mg/Kg	25.0	23.5		94	80 - 120	P
Potassium	mg/Kg	500	470		94	80 - 120	P
Selenium	mg/Kg	100	95.8		96	80 - 120	P
Silver	mg/Kg	3.8	3.52		93	80 - 120	P
Sodium	mg/Kg	150	148		99	80 - 120	P
Thallium	mg/Kg	100	94.2		94	80 - 120	P
Vanadium	mg/Kg	15.0	13.6		91	80 - 120	P
Zinc	mg/Kg	10.0	9.98		100	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168665BS							
Mercury	mg/Kg	0.27	0.24		90	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-82L

Lab Name: Chemtech Consulting Group **Contract:** CAMP02

Lab Code: CHEM **Lb No.:** lb136344 **Lab Sample ID :** Q2436-10L **SDG No.:** Q2436

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	1050		1150		9		P
Antimony	2.52	U	12.6	U			P
Arsenic	1.03		5.03	U	100.0		P
Barium	8.54		6.04	J	29		P
Beryllium	0.20	J	0.23	J	12		P
Cadmium	0.30	U	1.51	U			P
Calcium	174		184	J	6		P
Chromium	3.04		3.24		7		P
Cobalt	1.28	J	1.28	J	0		P
Copper	0.86	J	5.03	U	100.0		P
Iron	7140		7250		2		P
Lead	3.84		3.80		1		P
Magnesium	83.6	J	93.8	J	12		P
Manganese	19.7		20.5		4		P
Nickel	1.05	J	1.04	J	0		P
Potassium	45.1	J	503	U	100.0		P
Selenium	1.72		1.65	J	5		P
Silver	0.38	J	2.52	U	100.0		P
Sodium	171		192	J	12		P
Thallium	2.01	U	10.1	U			P
Vanadium	9.07		10.1		11		P
Zinc	6.28		6.62	J	5		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

EP-2L

Lab Name: Chemtech Consulting Group **Contract:** CAMP02

Lab Code: CHEM **Lb No.:** lb136329 **Lab Sample ID :** Q2452-05L **SDG No.:** Q2436

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.017		0.072	U	100.0		CV

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Case No.:** Q2436 **SAS No.:** Q2436

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Method:**

Case No.: Q2436 **SAS No.:** Q2436

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168648**						
PB168648BL	PB168648BL	MB	SOLID	06/27/2025	2.00	100.0	100.00
PB168648BS	PB168648BS	LCS	SOLID	06/27/2025	2.00	100.0	100.00
Q2436-01	TP-70	SAM	SOLID	06/27/2025	2.29	100.0	82.10
Q2436-02	TP-69	SAM	SOLID	06/27/2025	2.48	100.0	82.00
Q2436-03	TP-85	SAM	SOLID	06/27/2025	2.32	100.0	85.10
Q2436-04	TP-86	SAM	SOLID	06/27/2025	2.25	100.0	88.70
Q2436-05	TP-84	SAM	SOLID	06/27/2025	2.29	100.0	92.30
Q2436-06	TP-83	SAM	SOLID	06/27/2025	2.10	100.0	90.60
Q2436-07	TP-87	SAM	SOLID	06/27/2025	2.21	100.0	89.90
Q2436-08	TP-100	SAM	SOLID	06/27/2025	2.18	100.0	85.60
Q2436-09	TP-99	SAM	SOLID	06/27/2025	2.25	100.0	92.20
Q2436-10	TP-82	SAM	SOLID	06/27/2025	2.16	100.0	92.00
Q2436-10DUP	TP-82DUP	DUP	SOLID	06/27/2025	2.35	100.0	92.00
Q2436-10MS	TP-82MS	MS	SOLID	06/27/2025	2.15	100.0	92.00
Q2436-10MSD	TP-82MSD	MSD	SOLID	06/27/2025	2.26	100.0	92.00

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SAMPLE PREPARATION SUMMARY

Client: CDM Smith **SDG No.:** Q2436

Contract: CAMP02 **Lab Code:** CHEM **Method:**

Case No.: Q2436 **SAS No.:** Q2436

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168665**						
PB168665BL	PB168665BL	MB	SOLID	06/27/2025	0.50	35.0	100.00
PB168665BS	PB168665BS	LCS	SOLID	06/27/2025	0.52	35.0	100.00
Q2436-01	TP-70	SAM	SOLID	06/27/2025	0.59	35.0	82.10
Q2436-02	TP-69	SAM	SOLID	06/27/2025	0.56	35.0	82.00
Q2436-03	TP-85	SAM	SOLID	06/27/2025	0.57	35.0	85.10
Q2436-04	TP-86	SAM	SOLID	06/27/2025	0.53	35.0	88.70
Q2436-05	TP-84	SAM	SOLID	06/27/2025	0.57	35.0	92.30
Q2436-06	TP-83	SAM	SOLID	06/27/2025	0.52	35.0	90.60
Q2436-07	TP-87	SAM	SOLID	06/27/2025	0.56	35.0	89.90
Q2436-08	TP-100	SAM	SOLID	06/27/2025	0.56	35.0	85.60
Q2436-09	TP-99	SAM	SOLID	06/27/2025	0.52	35.0	92.20
Q2436-10	TP-82	SAM	SOLID	06/27/2025	0.55	35.0	92.00
Q2452-05DUP	EP-2DUP	DUP	SOLID	06/27/2025	0.54	35.0	87.00
Q2452-05MS	EP-2MS	MS	SOLID	06/27/2025	0.57	35.0	87.00
Q2452-05MSD	EP-2MSD	MSD	SOLID	06/27/2025	0.52	35.0	87.00

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2436 **Sas no.:** Q2436 **Sdg no.:** Q2436

Instrument id number: **Method:** **Run number:** LB136329

Start date: 06/30/2025 **End date:** 06/30/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1246	HG
S0.2	S0.2	1	1252	HG
S2.5	S2.5	1	1309	HG
S5	S5	1	1314	HG
S7.5	S7.5	1	1316	HG
S10	S10	1	1326	HG
ICV12	ICV12	1	1329	HG
ICB12	ICB12	1	1331	HG
CCV36	CCV36	1	1333	HG
CCB36	CCB36	1	1336	HG
CRA	CRA	1	1338	HG
PB168665BL	PB168665BL	1	1348	HG
Q2436-01	TP-70	1	1357	HG
Q2436-02	TP-69	1	1359	HG
Q2436-03	TP-85	1	1401	HG
CCV37	CCV37	1	1403	HG
CCB37	CCB37	1	1406	HG
Q2436-04	TP-86	1	1408	HG
Q2436-05	TP-84	1	1410	HG
Q2436-06	TP-83	1	1413	HG
Q2436-07	TP-87	1	1415	HG
Q2436-08	TP-100	1	1417	HG
Q2436-09	TP-99	1	1419	HG
Q2436-10	TP-82	1	1422	HG
CCV38	CCV38	1	1431	HG
CCB38	CCB38	1	1433	HG
Q2452-05DUP	EP-2DUP	1	1435	HG
Q2452-05MS	EP-2MS	1	1446	HG
Q2452-05MSD	EP-2MSD	1	1448	HG
Q2452-05L	EP-2L	5	1451	HG
PB168665BS	PB168665BS	1	1455	HG
CCV39	CCV39	1	1457	HG
CCB39	CCB39	1	1500	HG

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2436 **Sas no.:** Q2436 **Sdg no.:** Q2436

Instrument id number: **Method:** **Run number:** LB136344

Start date: 07/01/2025 **End date:** 07/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1304	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	1309	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	1313	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	1317	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	1321	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	1326	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	1330	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	1334	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	1338	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	1348	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	1352	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	1356	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	1409	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	1423	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	1542	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	1546	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168648BL	PB168648BL	1	1621	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168648BS	PB168648BS	1	1625	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	1637	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	1642	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	1726	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	1730	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-01	TP-70	1	1743	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-02	TP-69	1	1747	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-03	TP-85	1	1751	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-04	TP-86	1	1801	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-05	TP-84	1	1805	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-06	TP-83	1	1810	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-07	TP-87	1	1814	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-08	TP-100	1	1818	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	1827	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	1839	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-09	TP-99	1	1844	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-10	TP-82	1	1848	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-10DUP	TP-82DUP	1	1852	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-10L	TP-82L	5	1859	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-10MS	TP-82MS	1	1904	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-10MSD	TP-82MSD	1	1908	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2436-10A	TP-82A	1	1912	Ba,Ca,Mg,Mn,Sb
CCV06	CCV06	1	2005	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	2034	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: CDM Smith **Contract:** CAMP02

Lab code: CHEM **Case no.:** Q2436 **Sas no.:** Q2436 **Sdg no.:** Q2436

Instrument id number: **Method:** **Run number:** LB136344

Start date: 07/01/2025 **End date:** 07/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV07	CCV07	1	2122	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	2127	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	2150	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	2154	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q2436
QUOTE NO.
COC Number 2046480

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13.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 7325904679 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 7325904679 FAX:

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

ANALYSIS

1: TCL VOC
2
3. TCL SVOC
4
5: TAL METALS
6 PESTICIDES
7 HERBICIDES
8 DRO/GRO
9 PCBS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	TP-70	S		X	6/25/25	0800	6	X	X	X	X	X	X	X			E
2.	TP-69	S		X	6/25/25	0840	6	X	X	X	X	X	X	X			E
3.	TP-85	S		X	6/25/25	0938	6	X	X	X	X	X	X	X			E
4.	TP-86	S		X	6/25/25	1020	6	X	X	X	X	X	X	X			E
5.	TP-84	S		X	6/25/25	1100	6	X	X	X	X	X	X	X			E
6.	TP-83	S		X	6/25/25	1135	6	X	X	X	X	X	X	X			E
7.	TP-87	S		X	6/26/25	0800	6	X	X	X	X	X	X	X			E
8.	TP-100	S		X	6/26/25	0845	6	X	X	X	X	X	X	X			E
9.	TP-99	S		X	6/26/25	0930	6	X	X	X	X	X	X	X			E
10.	TP-82	S		X	6/26/25	1020	6	X	X	X	X	X	X	X			E

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	6/26/25 1500	1 1500 6-26-25
2.		2.
3.	6-26-25 1630	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.4 °C
Comments:

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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Fax : 908 789 8922

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DP 07/07/2025

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2436 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 6/26/2025 3:41:00 PM
Project Name : South River WM Replacem
Receive DateTime : 6/26/2025 4:30:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Level 1~~ Level 2
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2436-01	TP-70	Solid	06/25/2025	08:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2436-02	TP-69	Solid	06/25/2025	08:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2436-03	TP-85	Solid	06/25/2025	09:38					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2436-04	TP-86	Solid	06/25/2025	10:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2436-05	TP-84	Solid	06/25/2025	11:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2436-06	TP-83	Solid	06/25/2025	11:35					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2436-07	TP-87	Solid	06/26/2025	08:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2436-08	TP-100	Solid	06/26/2025	08:45					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2436 CAMP02
Client Name : CDM Smith
Client Contact : Marcie Ann Encinas
Invoice Name : CDM Smith
Invoice Contact : Marcie Ann Encinas

Order Date : 6/26/2025 3:41:00 PM
Project Name : South River WM Replacem
Receive DateTime : 6/26/2025 4:30:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Level I~~ Level 2
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2436-09	TP-99	Solid	06/26/2025	09:30					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2436-10	TP-82	Solid	06/26/2025	10:20					
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinguished By :
Date / Time : 6-27-25 0900

Received By :
Date / Time : 06/27/25

Storage Area : VOA Refridgerator Room