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 : Q2514**

**ATTENTION : Marcie Ann Encinas**

**Laboratory Certification ID # 20012**

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# Cover Page

**Order ID :** Q2514

**Project ID :** South River WM Replacement

**Client :** CDM Smith

| Lab Sample Number | Client Sample Number |
|---|---|
| Q2514-01 | TP-92 |
| Q2514-02 | TP-93 |
| Q2514-03 | TP-94 |
| Q2514-04 | TP-96 |
| Q2514-05 | TP-97 |
| Q2514-06 | TP-103 |
| Q2514-07 | TP-36 |
| Q2514-08 | TP-78 |
| Q2514-09 | TP-81 |
| Q2514-10 | TP-90 |

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

Signature : _____

Date: 7/18/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**CDM Smith**
**Project Name: South River WM Replacement**
**Project # N/A**
**Order ID # Q2514**
**Test Name: VOC-TCLVOA-10**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 07/03/2025.

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

**C. Analytical Techniques:**
The analysis performed on instrument MSVOA_W were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis 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 for {VW0709SBS01} with File ID: VW031769.D met requirements for all samples except for cis-1,2-Dichloroethene[124%] is failing high but no positive hit in associate sample while Methylene Chloride[176%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.

The Blank Spike for {VY0707SBS01} with File ID: VY022948.D met requirements for all samples except for Methylene Chloride[142%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.

The Blank Spike for {VY0708SBS01} with File ID: VY022970.D met requirements for all samples except for Methylene Chloride[149%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.

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The Blank Spike Duplicate for {VY0707SBSD01} with File ID: VY022949.D met requirements for all samples except for Methylene Chloride[172%] is failing high and associate sample having hit of Methylene Chloride but below CRQL therefore no corrective action taken.

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

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

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

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

Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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

---

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# CASE NARRATIVE

**CDM Smith**
**Project Name: South River WM Replacement**
**Project # N/A**
**Order ID # Q2514**
**Test Name: SVOC-TCL BNA -20**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 07/03/2025.

**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 due to matrix interference.
The MSD recoveries met the acceptable requirements due to matrix interference.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

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

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

The 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.

---

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# CASE NARRATIVE

**CDM Smith**
**Project Name: South River WM Replacement**
**Project # N/A**
**Order ID # Q2514**
**Test Name: Gasoline Range Organics**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 07/03/2025.

**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 except for TP-94 [Alpha,Alpha andAlpha-Trifluorotoluene - 41%]. VIAL A analyzed but Instrument stopped and End CCC was missing then VIAL B analyzed but Surrogate failing therefore VIAL B reported in hardcopy and VIAL A reported as Miscellaneous Data.

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

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

**F. Manual Integration Comments:**

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

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# CASE NARRATIVE

**CDM Smith**
**Project Name: South River WM Replacement**
**Project # N/A**
**Order ID # Q2514**
**Test Name: Pesticide-TCL**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 07/03/2025.

**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.
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:**
Sample TP-93 was reported with J flag on form 1 for compound gamma-Chlordane and Sample TP-97 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.

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

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

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# CASE NARRATIVE

**CDM Smith**
**Project Name: South River WM Replacement**
**Project # N/A**
**Order ID # Q2514**
**Test Name: PCB**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 07/03/2025.

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

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Surrogate recoveries 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 File ID PO112067.D met the requirements except for Tetrachloro-m-xylene is failing in 1st column, however it is passed in 2nd column therefore no corrective action was taken.

The Continuous Calibration File ID PO112083.D met the requirements except for Aroclor-1260(Peak-05),Tetrachloro-m-xylene 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:**
The soil samples results are based on a dry weight basis.

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

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# CASE NARRATIVE

**CDM Smith**
**Project Name: South River WM Replacement**
**Project # N/A**
**Order ID # Q2514**
**Test Name: Herbicide**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 07/03/2025.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Herbicide. This data package contains results for Herbicide.

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

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for TP-90 [2,4-DCAA(1)8%], TP-90RE [2 and4-DCAA(1)7%]. This sample reanalyzed to confirm results, Original and reanalysis both are reported.

The Retention Times were met for all analysis.

The MS {Q2493-01MS} with File ID: PS030961.D recoveries met the requirements for all compounds except for [2,4-D(1)291% - 2,4-D(2)66%] and [Dinoseb(1)0% - Dinoseb(2)0%] due to matrix interference.

The MSD {Q2493-01MSD} with File ID: PS030962.D recoveries met the requirements for all compounds except for [2,4-D(1)300% - 2,4-D(2)68%] and [Dinoseb(1)0% - Dinoseb(2)0%] due to matrix interference.

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

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

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

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# CASE NARRATIVE

**CDM Smith**
**Project Name: South River WM Replacement**
**Project # N/A**
**Order ID # Q2514**
**Test Name: Diesel Range Organics**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 07/03/2025.

**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 {Q2487-10MS} with File ID: FG016249.D recoveries met the requirements for all compounds except for DRO[38%] due to matrix interference .

The MSD {Q2487-10MSD} with File ID: FG016250.D recoveries met the acceptable requirements except for DRO[44%] 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:**

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

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# CASE NARRATIVE

**CDM Smith**
**Project Name: South River WM Replacement**
**Project # N/A**
**Order ID # Q2514**
**Test Name: Mercury,Metals ICP-TAL**

**A. Number of Samples and Date of Receipt:**
10 Solid samples were received on 07/03/2025.

**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 compounds.
The Duplicate (WC-1DUP) analysis met criteria for all compounds except for Lead due to sample matrix interference. The Duplicate (WC-1MSD) analysis met criteria for all compounds except for Manganese and Vanadium due to Chemical Interference during Digestion process.
The Matrix Spike (WC-1MS) analysis met criteria for all compounds except for Antimony, Beryllium, Cobalt, Copper, Selenium, Silver, Sodium and Vanadium due to Chemical Interference during Digestion process.
The Matrix Spike Duplicate (WC-1MSD) analysis met criteria for all compounds except for Antimony, Cobalt, Copper, Selenium, Silver, Sodium and Vanadium 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 (G1(6-12)L) met criteria for all compounds except for Mercury due to sample matrix interference. The Serial Dilution (WC-1L) met criteria for all compounds except for Iron, Magnesium and Manganese due to sample matrix interference.

**E. Additional Comments:**

The Post Digest Spike (WC-1A) analysis met criteria for all compounds except for Antimony, Copper, Selenium, Silver, Sodium and Vanadium 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.

In analytical sequence LB136407, The Results was outside of acceptance limit for Aluminum of CCB03 but no any sample associated under this CCB.
In analytical sequence LB136407, The Results was outside of acceptance limit for Silver of CCB04 and CCB05 but no any sample associated under these CCBs.
In analytical sequence LB136434, The Results was outside of acceptance limit for Silver of CCB08 but no any sample associated under this CCB.

---

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# DATA REPORTING QUALIFIERS- INORGANIC

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

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

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## DATA REPORTING QUALIFIERS- ORGANIC

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

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

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** Q2514

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

**QA Review Signature:** SOHIL JODHANI **Date:** 07/18/2025

Alliance TECHNICAL GROUP
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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2514 | **OrderDate:** | 7/3/2025 1:29:00 PM |
| **Client:** | CDM Smith | **Project:** | South River WM Replacement |
| **Contact:** | Marcie Ann Encinas | **Location:** | O21,O22,VOA Lab |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2514-01** | **TP-92** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 07/07/25 | |
| **Q2514-02** | **TP-93** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 07/07/25 | |
| **Q2514-03** | **TP-94** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 07/08/25 | |
| **Q2514-04** | **TP-96** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 07/08/25 | |
| **Q2514-05** | **TP-97** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 07/08/25 | |
| **Q2514-06** | **TP-103** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 07/09/25 | |
| **Q2514-07** | **TP-36** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 07/08/25 | |
| **Q2514-08** | **TP-78** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 07/08/25 | |
| **Q2514-09** | **TP-81** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 07/08/25 | |
| **Q2514-10** | **TP-90** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 07/08/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2514

**Client:** CDM Smith

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **TP-92** | | | | | | | | |
| Q2514-01 | TP-92 | SOIL | Methylene Chloride | | 5.50 | JQ | 3.50 | 10.0 | ug/Kg |
| Q2514-01 | TP-92 | SOIL | Chloroform | | 5.60 | | 0.84 | 5.00 | ug/Kg |
| | | | **Total Voc :** | | 11.1 | | | | |
| | | | **Total Concentration:** | | 11.1 | | | | |
| **Client ID:** | **TP-93** | | | | | | | | |
| Q2514-02 | TP-93 | SOIL | Methylene Chloride | | 10.9 | JQ | 4.40 | 12.4 | ug/Kg |
| | | | **Total Voc :** | | 10.9 | | | | |
| Q2514-02 | TP-93 | SOIL | 1,2,4-Trimethylbenzene | * | 3.30 | J | 0.79 | 6.20 | ug/Kg |
| | | | **Total Tics :** | | 3.30 | | | | |
| | | | **Total Concentration:** | | 14.2 | | | | |
| **Client ID:** | **TP-103** | | | | | | | | |
| Q2514-06 | TP-103 | SOIL | Methylene Chloride | | 10.5 | JQ | 4.00 | 11.3 | ug/Kg |
| | | | **Total Voc :** | | 10.5 | | | | |
| | | | **Total Concentration:** | | 10.5 | | | | |
| **Client ID:** | **TP-36** | | | | | | | | |
| Q2514-07 | TP-36 | SOIL | Methylene Chloride | | 8.00 | JQ | 3.00 | 8.50 | ug/Kg |
| | | | **Total Voc :** | | 8.00 | | | | |
| | | | **Total Concentration:** | | 8.00 | | | | |
| **Client ID:** | **TP-78** | | | | | | | | |
| Q2514-08 | TP-78 | SOIL | Methylene Chloride | | 7.50 | JQ | 4.00 | 11.3 | ug/Kg |
| | | | **Total Voc :** | | 7.50 | | | | |
| | | | **Total Concentration:** | | 7.50 | | | | |
| **Client ID:** | **TP-90** | | | | | | | | |
| Q2514-10 | TP-90 | SOIL | Methylene Chloride | | 13.7 | JQ | 7.20 | 20.3 | ug/Kg |
| | | | **Total Voc :** | | 13.7 | | | | |
| | | | **Total Concentration:** | | 13.7 | | | | |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.4 |
| Sample Wt/Vol: | 5.7 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022964.D | 1 | 07/07/25 16:45 | VY070725 |

| 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 | 4.80 | U | 4.80 | 25.1 | 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 | 5.50 | JQ | 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 | 6.60 | U | 6.60 | 25.1 | 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 | 5.60 | | 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 | 25.1 | 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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.4 |
| Sample Wt/Vol: | 5.7 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022964.D | 1 | 07/07/25 16:45 | VY070725 |

| 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 | 25.1 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.88 | U | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.91 | U | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.20 | U | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.82 | U | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.71 | U | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.86 | U | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.70 | U | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.50 | U | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.80 | U | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.00 | U | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.20 | U | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.7 | | 63 - 155 | 111% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.8 | | 70 - 134 | 104% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.4 | | 74 - 123 | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 56.1 | | 17 - 146 | 112% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 279000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 533000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 533000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 221000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.4 |
| Sample Wt/Vol: | 5.7 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022964.D | 1 | 07/07/25 16:45 | VY070725 |

| 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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.7 |
| Sample Wt/Vol: | 4.6 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022965.D | 1 | 07/07/25 17:09 | VY070725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.40 | U | 1.40 | 6.20 | ug/Kg |
| 74-87-3 | Chloromethane | 1.40 | U | 1.40 | 6.20 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.98 | U | 0.98 | 6.20 | ug/Kg |
| 74-83-9 | Bromomethane | 1.30 | U | 1.30 | 6.20 | ug/Kg |
| 75-00-3 | Chloroethane | 1.60 | U | 1.60 | 6.20 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.50 | U | 1.50 | 6.20 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.30 | U | 1.30 | 6.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.20 | U | 1.20 | 6.20 | ug/Kg |
| 67-64-1 | Acetone | 5.90 | U | 5.90 | 31.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.30 | U | 1.30 | 6.20 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.90 | U | 0.90 | 6.20 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.90 | U | 1.90 | 6.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 10.9 | JQ | 4.40 | 12.4 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.99 | U | 0.99 | 6.20 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.98 | U | 0.98 | 6.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 8.10 | U | 8.10 | 31.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.20 | U | 1.20 | 6.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.93 | U | 0.93 | 6.20 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.40 | U | 1.40 | 6.20 | ug/Kg |
| 67-66-3 | Chloroform | 1.00 | U | 1.00 | 6.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.20 | U | 1.20 | 6.20 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 71-43-2 | Benzene | 0.98 | U | 0.98 | 6.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.98 | U | 0.98 | 6.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.00 | U | 1.00 | 6.20 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.97 | U | 0.97 | 6.20 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 4.40 | U | 4.40 | 31.0 | ug/Kg |
| 108-88-3 | Toluene | 0.97 | U | 0.97 | 6.20 | ug/Kg |

Alliance TECHNICAL GROUP
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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.7 |
| Sample Wt/Vol: | 4.6 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022965.D | 1 | 07/07/25 17:09 | VY070725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.81 | U | 0.81 | 6.20 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.77 | U | 0.77 | 6.20 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.60 | U | 4.60 | 31.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.30 | U | 1.30 | 6.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.83 | U | 0.83 | 6.20 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.50 | U | 1.50 | 12.4 | ug/Kg |
| 95-47-6 | o-Xylene | 1.00 | U | 1.00 | 6.20 | ug/Kg |
| 100-42-5 | Styrene | 0.88 | U | 0.88 | 6.20 | ug/Kg |
| 75-25-2 | Bromoform | 1.10 | U | 1.10 | 6.20 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.97 | U | 0.97 | 6.20 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.50 | U | 1.50 | 6.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.10 | U | 2.10 | 6.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.90 | U | 1.90 | 6.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.80 | U | 1.80 | 6.20 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.30 | U | 2.30 | 6.20 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.70 | U | 3.70 | 6.20 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.90 | U | 3.90 | 6.20 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.2 | | 63 - 155 | 102% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.4 | | 70 - 134 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.7 | | 74 - 123 | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 55.1 | | 17 - 146 | 110% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 279000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 553000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 550000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 232000 | 13.34 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.7 |
| Sample Wt/Vol: | 4.6 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022965.D | 1 | 07/07/25 17:09 | VY070725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | 3.30 | J | | 13.0 | 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 88.1 |
| Sample Wt/Vol: | 3.86 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022975.D | 1 | 07/08/25 15:03 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.70 | U | 1.70 | 7.40 | ug/Kg |
| 74-87-3 | Chloromethane | 1.70 | U | 1.70 | 7.40 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 1.20 | U | 1.20 | 7.40 | ug/Kg |
| 74-83-9 | Bromomethane | 1.60 | U | 1.60 | 7.40 | ug/Kg |
| 75-00-3 | Chloroethane | 1.90 | U | 1.90 | 7.40 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.80 | U | 1.80 | 7.40 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.60 | U | 1.60 | 7.40 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.50 | U | 1.50 | 7.40 | ug/Kg |
| 67-64-1 | Acetone | 7.00 | U | 7.00 | 36.8 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.60 | U | 1.60 | 7.40 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 1.10 | U | 1.10 | 7.40 | ug/Kg |
| 79-20-9 | Methyl Acetate | 2.30 | U | 2.30 | 7.40 | ug/Kg |
| 75-09-2 | Methylene Chloride | 5.20 | UQ | 5.20 | 14.7 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.30 | U | 1.30 | 7.40 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 1.20 | U | 1.20 | 7.40 | ug/Kg |
| 110-82-7 | Cyclohexane | 1.20 | U | 1.20 | 7.40 | ug/Kg |
| 78-93-3 | 2-Butanone | 9.60 | U | 9.60 | 36.8 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.40 | U | 1.40 | 7.40 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 1.10 | U | 1.10 | 7.40 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.70 | U | 1.70 | 7.40 | ug/Kg |
| 67-66-3 | Chloroform | 1.20 | U | 1.20 | 7.40 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.40 | U | 1.40 | 7.40 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.30 | U | 1.30 | 7.40 | ug/Kg |
| 71-43-2 | Benzene | 1.20 | U | 1.20 | 7.40 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 1.20 | U | 1.20 | 7.40 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.20 | U | 1.20 | 7.40 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.30 | U | 1.30 | 7.40 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 1.10 | U | 1.10 | 7.40 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.30 | U | 5.30 | 36.8 | ug/Kg |
| 108-88-3 | Toluene | 1.10 | U | 1.10 | 7.40 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 88.1 |
| Sample Wt/Vol: | 3.86 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022975.D | 1 | 07/08/25 15:03 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.96 | U | 0.96 | 7.40 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.91 | U | 0.91 | 7.40 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.40 | U | 1.40 | 7.40 | ug/Kg |
| 591-78-6 | 2-Hexanone | 5.40 | U | 5.40 | 36.8 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 1.30 | U | 1.30 | 7.40 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.30 | U | 1.30 | 7.40 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.50 | U | 1.50 | 7.40 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.30 | U | 1.30 | 7.40 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.99 | U | 0.99 | 7.40 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.80 | U | 1.80 | 14.7 | ug/Kg |
| 95-47-6 | o-Xylene | 1.20 | U | 1.20 | 7.40 | ug/Kg |
| 100-42-5 | Styrene | 1.00 | U | 1.00 | 7.40 | ug/Kg |
| 75-25-2 | Bromoform | 1.30 | U | 1.30 | 7.40 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 1.10 | U | 1.10 | 7.40 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.80 | U | 1.80 | 7.40 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.50 | U | 2.50 | 7.40 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.30 | U | 2.30 | 7.40 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.10 | U | 2.10 | 7.40 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.70 | U | 2.70 | 7.40 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.40 | U | 4.40 | 7.40 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.70 | U | 4.70 | 7.40 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.5 | | 63 - 155 | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.8 | | 70 - 134 | 106% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.2 | | 74 - 123 | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 56.4 | | 17 - 146 | 113% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 275000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 527000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 523000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 228000 | 13.347 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 88.1 |
| Sample Wt/Vol: | 3.86 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022975.D | 1 | 07/08/25 15:03 | VY070825 |

| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.8 |
| Sample Wt/Vol: | 4.02 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022976.D | 1 | 07/08/25 15:26 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.70 | U | 1.70 | 7.20 | ug/Kg |
| 74-87-3 | Chloromethane | 1.70 | U | 1.70 | 7.20 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 1.10 | U | 1.10 | 7.20 | ug/Kg |
| 74-83-9 | Bromomethane | 1.60 | U | 1.60 | 7.20 | ug/Kg |
| 75-00-3 | Chloroethane | 1.80 | U | 1.80 | 7.20 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.80 | U | 1.80 | 7.20 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.50 | U | 1.50 | 7.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.40 | U | 1.40 | 7.20 | ug/Kg |
| 67-64-1 | Acetone | 6.90 | U | 6.90 | 36.2 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.50 | U | 1.50 | 7.20 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 1.10 | U | 1.10 | 7.20 | ug/Kg |
| 79-20-9 | Methyl Acetate | 2.20 | U | 2.20 | 7.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 5.10 | UQ | 5.10 | 14.5 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.20 | U | 1.20 | 7.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 1.20 | U | 1.20 | 7.20 | ug/Kg |
| 110-82-7 | Cyclohexane | 1.10 | U | 1.10 | 7.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 9.50 | U | 9.50 | 36.2 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.40 | U | 1.40 | 7.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 1.10 | U | 1.10 | 7.20 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.70 | U | 1.70 | 7.20 | ug/Kg |
| 67-66-3 | Chloroform | 1.20 | U | 1.20 | 7.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.30 | U | 1.30 | 7.20 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.30 | U | 1.30 | 7.20 | ug/Kg |
| 71-43-2 | Benzene | 1.10 | U | 1.10 | 7.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 1.10 | U | 1.10 | 7.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.20 | U | 1.20 | 7.20 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.30 | U | 1.30 | 7.20 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 1.10 | U | 1.10 | 7.20 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.20 | U | 5.20 | 36.2 | ug/Kg |
| 108-88-3 | Toluene | 1.10 | U | 1.10 | 7.20 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.8 |
| Sample Wt/Vol: | 4.02 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022976.D | 1 | 07/08/25 15:26 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.94 | U | 0.94 | 7.20 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.90 | U | 0.90 | 7.20 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.30 | U | 1.30 | 7.20 | ug/Kg |
| 591-78-6 | 2-Hexanone | 5.30 | U | 5.30 | 36.2 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 1.30 | U | 1.30 | 7.20 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.30 | U | 1.30 | 7.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.50 | U | 1.50 | 7.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.30 | U | 1.30 | 7.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.97 | U | 0.97 | 7.20 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.80 | U | 1.80 | 14.5 | ug/Kg |
| 95-47-6 | o-Xylene | 1.20 | U | 1.20 | 7.20 | ug/Kg |
| 100-42-5 | Styrene | 1.00 | U | 1.00 | 7.20 | ug/Kg |
| 75-25-2 | Bromoform | 1.20 | U | 1.20 | 7.20 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 1.10 | U | 1.10 | 7.20 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.80 | U | 1.80 | 7.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.50 | U | 2.50 | 7.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.30 | U | 2.30 | 7.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.10 | U | 2.10 | 7.20 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.70 | U | 2.70 | 7.20 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.30 | U | 4.30 | 7.20 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.60 | U | 4.60 | 7.20 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.1 | | 63 - 155 | 102% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.5 | | 70 - 134 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.3 | | 74 - 123 | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 53.9 | | 17 - 146 | 108% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 295000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 566000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 555000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 232000 | 13.34 | | | |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.8 |
| Sample Wt/Vol: | 4.02 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022976.D | 1 | 07/08/25 15:26 | VY070825 |

| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85 |
| Sample Wt/Vol: | 6.09 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022977.D | 1 | 07/08/25 15:50 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.10 | U | 1.10 | 4.80 | ug/Kg |
| 74-87-3 | Chloromethane | 1.10 | U | 1.10 | 4.80 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.76 | U | 0.76 | 4.80 | ug/Kg |
| 74-83-9 | Bromomethane | 1.00 | U | 1.00 | 4.80 | ug/Kg |
| 75-00-3 | Chloroethane | 1.20 | U | 1.20 | 4.80 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.20 | U | 1.20 | 4.80 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.00 | U | 1.00 | 4.80 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.97 | U | 0.97 | 4.80 | ug/Kg |
| 67-64-1 | Acetone | 4.60 | U | 4.60 | 24.1 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.00 | U | 1.00 | 4.80 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.71 | U | 0.71 | 4.80 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.50 | U | 1.50 | 4.80 | ug/Kg |
| 75-09-2 | Methylene Chloride | 3.40 | UQ | 3.40 | 9.70 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.83 | U | 0.83 | 4.80 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.77 | U | 0.77 | 4.80 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.76 | U | 0.76 | 4.80 | ug/Kg |
| 78-93-3 | 2-Butanone | 6.30 | U | 6.30 | 24.1 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.94 | U | 0.94 | 4.80 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.72 | U | 0.72 | 4.80 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.10 | U | 1.10 | 4.80 | ug/Kg |
| 67-66-3 | Chloroform | 0.81 | U | 0.81 | 4.80 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.90 | U | 0.90 | 4.80 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.88 | U | 0.88 | 4.80 | ug/Kg |
| 71-43-2 | Benzene | 0.76 | U | 0.76 | 4.80 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.76 | U | 0.76 | 4.80 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.78 | U | 0.78 | 4.80 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.88 | U | 0.88 | 4.80 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.75 | U | 0.75 | 4.80 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.50 | U | 3.50 | 24.1 | ug/Kg |
| 108-88-3 | Toluene | 0.75 | U | 0.75 | 4.80 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85 |
| Sample Wt/Vol: | 6.09 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022977.D | 1 | 07/08/25 15:50 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.63 | U | 0.63 | 4.80 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.60 | U | 0.60 | 4.80 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.89 | U | 0.89 | 4.80 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.60 | U | 3.60 | 24.1 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.84 | U | 0.84 | 4.80 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.85 | U | 0.85 | 4.80 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.00 | U | 1.00 | 4.80 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.88 | U | 0.88 | 4.80 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.65 | U | 0.65 | 4.80 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.20 | U | 1.20 | 9.70 | ug/Kg |
| 95-47-6 | o-Xylene | 0.79 | U | 0.79 | 4.80 | ug/Kg |
| 100-42-5 | Styrene | 0.69 | U | 0.69 | 4.80 | ug/Kg |
| 75-25-2 | Bromoform | 0.83 | U | 0.83 | 4.80 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.75 | U | 0.75 | 4.80 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.20 | U | 1.20 | 4.80 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.70 | U | 1.70 | 4.80 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.50 | U | 1.50 | 4.80 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.40 | U | 1.40 | 4.80 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.80 | U | 1.80 | 4.80 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.90 | U | 2.90 | 4.80 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.10 | U | 3.10 | 4.80 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.2 | | 63 - 155 | 112% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.0 | | 70 - 134 | 104% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.8 | | 74 - 123 | 104% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 59.8 | | 17 - 146 | 120% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 262000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 503000 | 8.609 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 519000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 238000 | 13.34 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85 |
| Sample Wt/Vol: | 6.09 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022977.D | 1 | 07/08/25 15:50 | VY070825 |

| 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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.5 |
| Sample Wt/Vol: | 5.1 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW031775.D | 1 | 07/09/25 14:56 | VW070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.30 | U | 1.30 | 5.70 | ug/Kg |
| 74-87-3 | Chloromethane | 1.30 | U | 1.30 | 5.70 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.90 | U | 0.90 | 5.70 | ug/Kg |
| 74-83-9 | Bromomethane | 1.20 | U | 1.20 | 5.70 | ug/Kg |
| 75-00-3 | Chloroethane | 1.40 | U | 1.40 | 5.70 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.40 | U | 1.40 | 5.70 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.20 | U | 1.20 | 5.70 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.10 | U | 1.10 | 5.70 | ug/Kg |
| 67-64-1 | Acetone | 5.40 | U | 5.40 | 28.3 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.20 | U | 1.20 | 5.70 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.83 | U | 0.83 | 5.70 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.70 | U | 1.70 | 5.70 | ug/Kg |
| 75-09-2 | Methylene Chloride | 10.5 | JQ | 4.00 | 11.3 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.97 | U | 0.97 | 5.70 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.91 | U | 0.91 | 5.70 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.90 | U | 0.90 | 5.70 | ug/Kg |
| 78-93-3 | 2-Butanone | 7.40 | U | 7.40 | 28.3 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.10 | U | 1.10 | 5.70 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.85 | UQ | 0.85 | 5.70 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.30 | U | 1.30 | 5.70 | ug/Kg |
| 67-66-3 | Chloroform | 0.95 | U | 0.95 | 5.70 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.10 | U | 1.10 | 5.70 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 71-43-2 | Benzene | 0.90 | U | 0.90 | 5.70 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.90 | U | 0.90 | 5.70 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.92 | U | 0.92 | 5.70 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.88 | U | 0.88 | 5.70 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 4.10 | U | 4.10 | 28.3 | ug/Kg |
| 108-88-3 | Toluene | 0.88 | U | 0.88 | 5.70 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.5 |
| Sample Wt/Vol: | 5.1 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW031775.D | 1 | 07/09/25 14:56 | VW070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.74 | U | 0.74 | 5.70 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.70 | U | 0.70 | 5.70 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.20 | U | 4.20 | 28.3 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.99 | U | 0.99 | 5.70 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.20 | U | 1.20 | 5.70 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.00 | U | 1.00 | 5.70 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.76 | U | 0.76 | 5.70 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.40 | U | 1.40 | 11.3 | ug/Kg |
| 95-47-6 | o-Xylene | 0.93 | U | 0.93 | 5.70 | ug/Kg |
| 100-42-5 | Styrene | 0.80 | U | 0.80 | 5.70 | ug/Kg |
| 75-25-2 | Bromoform | 0.97 | U | 0.97 | 5.70 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.88 | U | 0.88 | 5.70 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.40 | U | 1.40 | 5.70 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.90 | U | 1.90 | 5.70 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.80 | U | 1.80 | 5.70 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.60 | U | 1.60 | 5.70 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.10 | U | 2.10 | 5.70 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.40 | U | 3.40 | 5.70 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.60 | U | 3.60 | 5.70 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.9 | | 63 - 155 | 100% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 47.9 | | 70 - 134 | 96% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.4 | | 74 - 123 | 95% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.1 | | 17 - 146 | 92% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 197000 | 7.965 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 401000 | 8.855 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 358000 | 11.629 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 165000 | 13.556 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.5 |
| Sample Wt/Vol: | 5.1 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW031775.D | 1 | 07/09/25 14:56 | VW070925 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 90.3 |
| Sample Wt/Vol: | 6.55 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022979.D | 1 | 07/08/25 16:37 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.96 | U | 0.96 | 4.20 | ug/Kg |
| 74-87-3 | Chloromethane | 0.96 | U | 0.96 | 4.20 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.67 | U | 0.67 | 4.20 | ug/Kg |
| 74-83-9 | Bromomethane | 0.90 | U | 0.90 | 4.20 | ug/Kg |
| 75-00-3 | Chloroethane | 1.10 | U | 1.10 | 4.20 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.00 | U | 1.00 | 4.20 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.90 | U | 0.90 | 4.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.85 | U | 0.85 | 4.20 | ug/Kg |
| 67-64-1 | Acetone | 4.00 | U | 4.00 | 21.1 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 0.90 | U | 0.90 | 4.20 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.62 | U | 0.62 | 4.20 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.30 | U | 1.30 | 4.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 8.00 | JQ | 3.00 | 8.50 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.73 | U | 0.73 | 4.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.68 | U | 0.68 | 4.20 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.67 | U | 0.67 | 4.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 5.50 | U | 5.50 | 21.1 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.82 | U | 0.82 | 4.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.63 | U | 0.63 | 4.20 | ug/Kg |
| 74-97-5 | Bromochloromethane | 0.97 | U | 0.97 | 4.20 | ug/Kg |
| 67-66-3 | Chloroform | 0.71 | U | 0.71 | 4.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.79 | U | 0.79 | 4.20 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.77 | U | 0.77 | 4.20 | ug/Kg |
| 71-43-2 | Benzene | 0.67 | U | 0.67 | 4.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.67 | U | 0.67 | 4.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.68 | U | 0.68 | 4.20 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.77 | U | 0.77 | 4.20 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.66 | U | 0.66 | 4.20 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.00 | U | 3.00 | 21.1 | ug/Kg |
| 108-88-3 | Toluene | 0.66 | U | 0.66 | 4.20 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 90.3 |
| Sample Wt/Vol: | 6.55 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022979.D | 1 | 07/08/25 16:37 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.55 | U | 0.55 | 4.20 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.52 | U | 0.52 | 4.20 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.78 | U | 0.78 | 4.20 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.10 | U | 3.10 | 21.1 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.74 | U | 0.74 | 4.20 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.74 | U | 0.74 | 4.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.89 | U | 0.89 | 4.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.77 | U | 0.77 | 4.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.57 | U | 0.57 | 4.20 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.00 | U | 1.00 | 8.50 | ug/Kg |
| 95-47-6 | o-Xylene | 0.69 | U | 0.69 | 4.20 | ug/Kg |
| 100-42-5 | Styrene | 0.60 | U | 0.60 | 4.20 | ug/Kg |
| 75-25-2 | Bromoform | 0.73 | U | 0.73 | 4.20 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.66 | U | 0.66 | 4.20 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.00 | U | 1.00 | 4.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.40 | U | 1.40 | 4.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.30 | U | 1.30 | 4.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.20 | U | 1.20 | 4.20 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.60 | U | 1.60 | 4.20 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.50 | U | 2.50 | 4.20 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.70 | U | 2.70 | 4.20 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.9 | | 63 - 155 | 110% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.5 | | 70 - 134 | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.5 | | 74 - 123 | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 56.8 | | 17 - 146 | 114% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 258000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 492000 | 8.609 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 507000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 227000 | 13.34 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 90.3 |
| Sample Wt/Vol: | 6.55 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022979.D | 1 | 07/08/25 16:37 | VY070825 |

| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.3 |
| Sample Wt/Vol: | 5.15 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022980.D | 1 | 07/08/25 17:00 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.30 | U | 1.30 | 5.60 | ug/Kg |
| 74-87-3 | Chloromethane | 1.30 | U | 1.30 | 5.60 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.89 | U | 0.89 | 5.60 | ug/Kg |
| 74-83-9 | Bromomethane | 1.20 | U | 1.20 | 5.60 | ug/Kg |
| 75-00-3 | Chloroethane | 1.40 | U | 1.40 | 5.60 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.40 | U | 1.40 | 5.60 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.20 | U | 1.20 | 5.60 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.10 | U | 1.10 | 5.60 | ug/Kg |
| 67-64-1 | Acetone | 5.30 | U | 5.30 | 28.1 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.20 | U | 1.20 | 5.60 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.82 | U | 0.82 | 5.60 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.70 | U | 1.70 | 5.60 | ug/Kg |
| 75-09-2 | Methylene Chloride | 7.50 | JQ | 4.00 | 11.3 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.97 | U | 0.97 | 5.60 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.90 | U | 0.90 | 5.60 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.89 | U | 0.89 | 5.60 | ug/Kg |
| 78-93-3 | 2-Butanone | 7.40 | U | 7.40 | 28.1 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.10 | U | 1.10 | 5.60 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.84 | U | 0.84 | 5.60 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.30 | U | 1.30 | 5.60 | ug/Kg |
| 67-66-3 | Chloroform | 0.94 | U | 0.94 | 5.60 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.00 | U | 1.00 | 5.60 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.00 | U | 1.00 | 5.60 | ug/Kg |
| 71-43-2 | Benzene | 0.89 | U | 0.89 | 5.60 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.89 | U | 0.89 | 5.60 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.91 | U | 0.91 | 5.60 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.00 | U | 1.00 | 5.60 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.88 | U | 0.88 | 5.60 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 4.00 | U | 4.00 | 28.1 | ug/Kg |
| 108-88-3 | Toluene | 0.88 | U | 0.88 | 5.60 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.3 |
| Sample Wt/Vol: | 5.15 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022980.D | 1 | 07/08/25 17:00 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.73 | U | 0.73 | 5.60 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.70 | U | 0.70 | 5.60 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.00 | U | 1.00 | 5.60 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.20 | U | 4.20 | 28.1 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.98 | U | 0.98 | 5.60 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.99 | U | 0.99 | 5.60 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.20 | U | 1.20 | 5.60 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.00 | U | 1.00 | 5.60 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.75 | U | 0.75 | 5.60 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.40 | U | 1.40 | 11.3 | ug/Kg |
| 95-47-6 | o-Xylene | 0.92 | U | 0.92 | 5.60 | ug/Kg |
| 100-42-5 | Styrene | 0.80 | U | 0.80 | 5.60 | ug/Kg |
| 75-25-2 | Bromoform | 0.97 | U | 0.97 | 5.60 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.88 | U | 0.88 | 5.60 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.40 | U | 1.40 | 5.60 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.90 | U | 1.90 | 5.60 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.80 | U | 1.80 | 5.60 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.60 | U | 1.60 | 5.60 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.10 | U | 2.10 | 5.60 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.30 | U | 3.30 | 5.60 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.60 | U | 3.60 | 5.60 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.5 | | 63 - 155 | 109% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.4 | | 70 - 134 | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.5 | | 74 - 123 | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 56.4 | | 17 - 146 | 113% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 255000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 483000 | 8.615 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 488000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 217000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.3 |
| Sample Wt/Vol: | 5.15 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022980.D | 1 | 07/08/25 17:00 | VY070825 |

| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.3 |
| Sample Wt/Vol: | 4.87 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022981.D | 1 | 07/08/25 17:23 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.40 | U | 1.40 | 5.90 | ug/Kg |
| 74-87-3 | Chloromethane | 1.40 | U | 1.40 | 5.90 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.94 | U | 0.94 | 5.90 | ug/Kg |
| 74-83-9 | Bromomethane | 1.30 | U | 1.30 | 5.90 | ug/Kg |
| 75-00-3 | Chloroethane | 1.50 | U | 1.50 | 5.90 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 1.40 | U | 1.40 | 5.90 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.30 | U | 1.30 | 5.90 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.20 | U | 1.20 | 5.90 | ug/Kg |
| 67-64-1 | Acetone | 5.60 | U | 5.60 | 29.7 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.30 | U | 1.30 | 5.90 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.87 | U | 0.87 | 5.90 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.80 | U | 1.80 | 5.90 | ug/Kg |
| 75-09-2 | Methylene Chloride | 4.20 | UQ | 4.20 | 11.9 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.00 | U | 1.00 | 5.90 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.95 | U | 0.95 | 5.90 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.94 | U | 0.94 | 5.90 | ug/Kg |
| 78-93-3 | 2-Butanone | 7.80 | U | 7.80 | 29.7 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.20 | U | 1.20 | 5.90 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.89 | U | 0.89 | 5.90 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.40 | U | 1.40 | 5.90 | ug/Kg |
| 67-66-3 | Chloroform | 1.00 | U | 1.00 | 5.90 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.10 | U | 1.10 | 5.90 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.10 | U | 1.10 | 5.90 | ug/Kg |
| 71-43-2 | Benzene | 0.94 | U | 0.94 | 5.90 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.94 | U | 0.94 | 5.90 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.96 | U | 0.96 | 5.90 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.10 | U | 1.10 | 5.90 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.93 | U | 0.93 | 5.90 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 4.30 | U | 4.30 | 29.7 | ug/Kg |
| 108-88-3 | Toluene | 0.93 | U | 0.93 | 5.90 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.3 |
| Sample Wt/Vol: | 4.87 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022981.D | 1 | 07/08/25 17:23 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.77 | U | 0.77 | 5.90 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.74 | U | 0.74 | 5.90 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.10 | U | 1.10 | 5.90 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.40 | U | 4.40 | 29.7 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 1.00 | U | 1.00 | 5.90 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.00 | U | 1.00 | 5.90 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.20 | U | 1.20 | 5.90 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.10 | U | 1.10 | 5.90 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.80 | U | 0.80 | 5.90 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.50 | U | 1.50 | 11.9 | ug/Kg |
| 95-47-6 | o-Xylene | 0.98 | U | 0.98 | 5.90 | ug/Kg |
| 100-42-5 | Styrene | 0.84 | U | 0.84 | 5.90 | ug/Kg |
| 75-25-2 | Bromoform | 1.00 | U | 1.00 | 5.90 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.93 | U | 0.93 | 5.90 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.40 | U | 1.40 | 5.90 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.00 | U | 2.00 | 5.90 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.90 | U | 1.90 | 5.90 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.70 | U | 1.70 | 5.90 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.20 | U | 2.20 | 5.90 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.50 | U | 3.50 | 5.90 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.80 | U | 3.80 | 5.90 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.9 | | 63 - 155 | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.4 | | 70 - 134 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.5 | | 74 - 123 | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 54.7 | | 17 - 146 | 109% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 259000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 495000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 488000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 213000 | 13.34 | | | |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.3 |
| Sample Wt/Vol: | 4.87 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022981.D | 1 | 07/08/25 17:23 | VY070825 |

| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 91.6 |
| Sample Wt/Vol: | 2.69 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022982.D | 1 | 07/08/25 17:47 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 2.30 | U | 2.30 | 10.1 | ug/Kg |
| 74-87-3 | Chloromethane | 2.30 | U | 2.30 | 10.1 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 1.60 | U | 1.60 | 10.1 | ug/Kg |
| 74-83-9 | Bromomethane | 2.20 | U | 2.20 | 10.1 | ug/Kg |
| 75-00-3 | Chloroethane | 2.60 | U | 2.60 | 10.1 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 2.50 | U | 2.50 | 10.1 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.20 | U | 2.20 | 10.1 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.00 | U | 2.00 | 10.1 | ug/Kg |
| 67-64-1 | Acetone | 9.60 | U | 9.60 | 50.7 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 2.20 | U | 2.20 | 10.1 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 1.50 | U | 1.50 | 10.1 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.10 | U | 3.10 | 10.1 | ug/Kg |
| 75-09-2 | Methylene Chloride | 13.7 | JQ | 7.20 | 20.3 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.70 | U | 1.70 | 10.1 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 1.60 | U | 1.60 | 10.1 | ug/Kg |
| 110-82-7 | Cyclohexane | 1.60 | U | 1.60 | 10.1 | ug/Kg |
| 78-93-3 | 2-Butanone | 13.3 | U | 13.3 | 50.7 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.00 | U | 2.00 | 10.1 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 1.50 | U | 1.50 | 10.1 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.30 | U | 2.30 | 10.1 | ug/Kg |
| 67-66-3 | Chloroform | 1.70 | U | 1.70 | 10.1 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.90 | U | 1.90 | 10.1 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.80 | U | 1.80 | 10.1 | ug/Kg |
| 71-43-2 | Benzene | 1.60 | U | 1.60 | 10.1 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 1.60 | U | 1.60 | 10.1 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.60 | U | 1.60 | 10.1 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.80 | U | 1.80 | 10.1 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 1.60 | U | 1.60 | 10.1 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 7.30 | U | 7.30 | 50.7 | ug/Kg |
| 108-88-3 | Toluene | 1.60 | U | 1.60 | 10.1 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 91.6 |
| Sample Wt/Vol: | 2.69 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022982.D | 1 | 07/08/25 17:47 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 1.30 | U | 1.30 | 10.1 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.30 | U | 1.30 | 10.1 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.90 | U | 1.90 | 10.1 | ug/Kg |
| 591-78-6 | 2-Hexanone | 7.50 | U | 7.50 | 50.7 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 1.80 | U | 1.80 | 10.1 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.80 | U | 1.80 | 10.1 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.10 | U | 2.10 | 10.1 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.80 | U | 1.80 | 10.1 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 1.40 | U | 1.40 | 10.1 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 2.50 | U | 2.50 | 20.3 | ug/Kg |
| 95-47-6 | o-Xylene | 1.70 | U | 1.70 | 10.1 | ug/Kg |
| 100-42-5 | Styrene | 1.40 | U | 1.40 | 10.1 | ug/Kg |
| 75-25-2 | Bromoform | 1.70 | U | 1.70 | 10.1 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 1.60 | U | 1.60 | 10.1 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.50 | U | 2.50 | 10.1 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 3.50 | U | 3.50 | 10.1 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 3.20 | U | 3.20 | 10.1 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.90 | U | 2.90 | 10.1 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.70 | U | 3.70 | 10.1 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 6.00 | U | 6.00 | 10.1 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 6.50 | U | 6.50 | 10.1 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.9 | | 63 - 155 | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.6 | | 70 - 134 | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.1 | | 74 - 123 | 104% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 55.5 | | 17 - 146 | 111% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 256000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 488000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 489000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 213000 | 13.34 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 91.6 |
| Sample Wt/Vol: | 2.69 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022982.D | 1 | 07/08/25 17:47 | VY070825 |

| 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.:** Q2514

**Client:** CDM Smith

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| Q2514-01 | TP-92 | 1,2-Dichloroethane-d4 | 50 | 55.6 | 111 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 51.8 | 104 | | 70 | 134 |
| | | Toluene-d8 | 50 | 51.4 | 103 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 56.1 | 112 | | 17 | 146 |
| Q2514-02 | TP-93 | 1,2-Dichloroethane-d4 | 50 | 51.2 | 102 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 52.4 | 105 | | 70 | 134 |
| | | Toluene-d8 | 50 | 50.7 | 101 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 55.1 | 110 | | 17 | 146 |
| Q2514-03 | TP-94 | 1,2-Dichloroethane-d4 | 50 | 53.5 | 107 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 52.8 | 106 | | 70 | 134 |
| | | Toluene-d8 | 50 | 51.2 | 102 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 56.4 | 113 | | 17 | 146 |
| Q2514-04 | TP-96 | 1,2-Dichloroethane-d4 | 50 | 51.1 | 102 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 52.5 | 105 | | 70 | 134 |
| | | Toluene-d8 | 50 | 51.3 | 103 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 53.9 | 108 | | 17 | 146 |
| Q2514-05 | TP-97 | 1,2-Dichloroethane-d4 | 50 | 56.2 | 112 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 52.0 | 104 | | 70 | 134 |
| | | Toluene-d8 | 50 | 51.8 | 104 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 59.8 | 120 | | 17 | 146 |
| Q2514-06 | TP-103 | 1,2-Dichloroethane-d4 | 50 | 49.9 | 100 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 47.9 | 96 | | 70 | 134 |
| | | Toluene-d8 | 50 | 47.4 | 95 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 46.1 | 92 | | 17 | 146 |
| Q2514-07 | TP-36 | 1,2-Dichloroethane-d4 | 50 | 54.9 | 110 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 53.5 | 107 | | 70 | 134 |
| | | Toluene-d8 | 50 | 52.5 | 105 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 56.8 | 114 | | 17 | 146 |
| Q2514-08 | TP-78 | 1,2-Dichloroethane-d4 | 50 | 54.5 | 109 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 51.4 | 103 | | 70 | 134 |
| | | Toluene-d8 | 50 | 51.5 | 103 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 56.4 | 113 | | 17 | 146 |
| Q2514-09 | TP-81 | 1,2-Dichloroethane-d4 | 50 | 52.9 | 106 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 52.4 | 105 | | 70 | 134 |
| | | Toluene-d8 | 50 | 51.5 | 103 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 54.7 | 109 | | 17 | 146 |
| Q2514-10 | TP-90 | 1,2-Dichloroethane-d4 | 50 | 52.9 | 106 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 51.6 | 103 | | 70 | 134 |
| | | Toluene-d8 | 50 | 52.1 | 104 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 55.5 | 111 | | 17 | 146 |
| VW0709SBL01 | VW0709SBL01 | 1,2-Dichloroethane-d4 | 50 | 44.4 | 89 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 46.0 | 92 | | 70 | 134 |
| | | Toluene-d8 | 50 | 45.6 | 91 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 41.8 | 84 | | 17 | 146 |
| VW0709SBS01 | VW0709SBS01 | 1,2-Dichloroethane-d4 | 50 | 58.7 | 117 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 57.7 | 115 | | 70 | 134 |
| | | Toluene-d8 | 50 | 58.6 | 117 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 59.5 | 119 | | 17 | 146 |
| VY0707SBL01 | VY0707SBL01 | 1,2-Dichloroethane-d4 | 50 | 45.8 | 91 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 50.4 | 101 | | 70 | 134 |

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# Surrogate Summary

**SDG No.:** Q2514

**Client:** CDM Smith

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| VY0707SBL01 | VY0707SBL01 | Toluene-d8 | 50 | 50.9 | 102 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 53.3 | 107 | | 17 | 146 |
| VY0707SBS01 | VY0707SBS01 | 1,2-Dichloroethane-d4 | 50 | 46.9 | 94 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 49.5 | 99 | | 70 | 134 |
| | | Toluene-d8 | 50 | 50.4 | 101 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 47.0 | 94 | | 17 | 146 |
| VY0707SBSD01 | VY0707SBSD01 | 1,2-Dichloroethane-d4 | 50 | 47.9 | 96 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 50.4 | 101 | | 70 | 134 |
| | | Toluene-d8 | 50 | 50.1 | 100 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 48.4 | 97 | | 17 | 146 |
| VY0708SBL01 | VY0708SBL01 | 1,2-Dichloroethane-d4 | 50 | 49.7 | 99 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 51.2 | 102 | | 70 | 134 |
| | | Toluene-d8 | 50 | 50.8 | 102 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 54.9 | 110 | | 17 | 146 |
| VY0708SBS01 | VY0708SBS01 | 1,2-Dichloroethane-d4 | 50 | 52.0 | 104 | | 63 | 155 |
| | | Dibromofluoromethane | 50 | 54.0 | 108 | | 70 | 134 |
| | | Toluene-d8 | 50 | 53.5 | 107 | | 74 | 123 |
| | | 4-Bromofluorobenzene | 50 | 51.5 | 103 | | 17 | 146 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

**SDG No.:** Q2514 **Analytical Method:** SW8260D

**Client:** CDM Smith **Datafile :** VW031769.D

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

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

**SDG No.:** Q2514 **Analytical Method:** SW8260D

**Client:** CDM Smith **Datafile :** VW031769.D

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

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

**SDG No.:** Q2514 **Analytical Method:** SW8260D

**Client:** CDM Smith **Datafile :** VY022948.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0707SBS01 | Dichlorodifluoromethane | 20 | 20.3 | ug/Kg | 102 | | | 64 | 136 | |
| | Chloromethane | 20 | 19.1 | ug/Kg | 96 | | | 52 | 151 | |
| | Vinyl chloride | 20 | 18.8 | ug/Kg | 94 | | | 56 | 148 | |
| | Bromomethane | 20 | 18.8 | ug/Kg | 94 | | | 58 | 141 | |
| | Chloroethane | 20 | 19.0 | ug/Kg | 95 | | | 69 | 130 | |
| | Trichlorofluoromethane | 20 | 19.1 | ug/Kg | 96 | | | 69 | 134 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.3 | ug/Kg | 106 | | | 81 | 123 | |
| | 1,1-Dichloroethene | 20 | 20.8 | ug/Kg | 104 | | | 79 | 121 | |
| | Acetone | 100 | 140 | ug/Kg | 140 | | | 40 | 171 | |
| | Carbon disulfide | 20 | 20.7 | ug/Kg | 104 | | | 59 | 130 | |
| | Methyl tert-butyl Ether | 20 | 18.4 | ug/Kg | 92 | | | 77 | 129 | |
| | Methyl Acetate | 20 | 16.6 | ug/Kg | 83 | | | 69 | 149 | |
| | Methylene Chloride | 20 | 28.4 | ug/Kg | 142 | | * | 72 | 131 | |
| | trans-1,2-Dichloroethene | 20 | 20.6 | ug/Kg | 103 | | | 80 | 123 | |
| | 1,1-Dichloroethane | 20 | 21.3 | ug/Kg | 106 | | | 82 | 123 | |
| | Cyclohexane | 20 | 21.0 | ug/Kg | 105 | | | 76 | 122 | |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | | | 69 | 131 | |
| | Carbon Tetrachloride | 20 | 21.2 | ug/Kg | 106 | | | 76 | 129 | |
| | cis-1,2-Dichloroethene | 20 | 20.0 | ug/Kg | 100 | | | 82 | 123 | |
| | Bromochloromethane | 20 | 20.2 | ug/Kg | 101 | | | 80 | 127 | |
| | Chloroform | 20 | 20.5 | ug/Kg | 103 | | | 82 | 125 | |
| | 1,1,1-Trichloroethane | 20 | 21.0 | ug/Kg | 105 | | | 80 | 126 | |
| | Methylcyclohexane | 20 | 20.7 | ug/Kg | 104 | | | 77 | 123 | |
| | Benzene | 20 | 20.7 | ug/Kg | 104 | | | 84 | 121 | |
| | 1,2-Dichloroethane | 20 | 19.5 | ug/Kg | 98 | | | 81 | 126 | |
| | Trichloroethene | 20 | 21.4 | ug/Kg | 107 | | | 83 | 122 | |
| | 1,2-Dichloropropane | 20 | 20.8 | ug/Kg | 104 | | | 83 | 122 | |
| | Bromodichloromethane | 20 | 20.3 | ug/Kg | 102 | | | 82 | 123 | |
| | 4-Methyl-2-Pentanone | 100 | 87.9 | ug/Kg | 88 | | | 70 | 135 | |
| | Toluene | 20 | 20.5 | ug/Kg | 103 | | | 83 | 122 | |
| | t-1,3-Dichloropropene | 20 | 19.3 | ug/Kg | 97 | | | 78 | 124 | |
| | cis-1,3-Dichloropropene | 20 | 20.0 | ug/Kg | 100 | | | 81 | 122 | |
| | 1,1,2-Trichloroethane | 20 | 19.3 | ug/Kg | 97 | | | 82 | 125 | |
| | 2-Hexanone | 100 | 97.0 | ug/Kg | 97 | | | 66 | 138 | |
| | Dibromochloromethane | 20 | 19.3 | ug/Kg | 97 | | | 79 | 125 | |
| | 1,2-Dibromoethane | 20 | 18.6 | ug/Kg | 93 | | | 80 | 125 | |
| | Tetrachloroethene | 20 | 22.3 | ug/Kg | 112 | | | 83 | 125 | |
| | Chlorobenzene | 20 | 20.7 | ug/Kg | 104 | | | 84 | 122 | |
| | Ethyl Benzene | 20 | 20.7 | ug/Kg | 104 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 41.4 | ug/Kg | 104 | | | 83 | 124 | |
| | o-Xylene | 20 | 20.3 | ug/Kg | 102 | | | 83 | 123 | |
| | Styrene | 20 | 19.8 | ug/Kg | 99 | | | 82 | 124 | |
| | Bromoform | 20 | 18.3 | ug/Kg | 92 | | | 75 | 127 | |
| | Isopropylbenzene | 20 | 21.5 | ug/Kg | 108 | | | 82 | 124 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.3 | ug/Kg | 92 | | | 77 | 127 | |
| | 1,3-Dichlorobenzene | 20 | 20.7 | ug/Kg | 104 | | | 83 | 122 | |
| | 1,4-Dichlorobenzene | 20 | 20.5 | ug/Kg | 103 | | | 84 | 121 | |
| | 1,2-Dichlorobenzene | 20 | 20.1 | ug/Kg | 101 | | | 83 | 124 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

**SDG No.:** Q2514 **Analytical Method:** SW8260D

**Client:** CDM Smith **Datafile :** VY022948.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0707SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 16.8 | ug/Kg | 84 | | | 66 | 134 | |
| | 1,2,4-Trichlorobenzene | 20 | 18.4 | ug/Kg | 92 | | | 78 | 127 | |
| | 1,2,3-Trichlorobenzene | 20 | 17.7 | ug/Kg | 89 | | | 70 | 137 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** SW8260D

**Client:** CDM Smith **Datafile :** VY022949.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0707SBSD01 | Dichlorodifluoromethane | 20 | 20.5 | ug/Kg | 103 | 1 | | 64 | 136 | 20 |
| | Chloromethane | 20 | 19.3 | ug/Kg | 97 | 1 | | 52 | 151 | 20 |
| | Vinyl chloride | 20 | 18.7 | ug/Kg | 94 | 0 | | 56 | 148 | 20 |
| | Bromomethane | 20 | 19.0 | ug/Kg | 95 | 1 | | 58 | 141 | 20 |
| | Chloroethane | 20 | 19.2 | ug/Kg | 96 | 1 | | 69 | 130 | 20 |
| | Trichlorofluoromethane | 20 | 19.2 | ug/Kg | 96 | 0 | | 69 | 134 | 20 |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.8 | ug/Kg | 109 | 3 | | 81 | 123 | 20 |
| | 1,1-Dichloroethene | 20 | 21.0 | ug/Kg | 105 | 1 | | 79 | 121 | 20 |
| | Acetone | 100 | 150 | ug/Kg | 150 | 7 | | 40 | 171 | 20 |
| | Carbon disulfide | 20 | 20.7 | ug/Kg | 104 | 0 | | 59 | 130 | 20 |
| | Methyl tert-butyl Ether | 20 | 19.7 | ug/Kg | 99 | 7 | | 77 | 129 | 20 |
| | Methyl Acetate | 20 | 17.0 | ug/Kg | 85 | 2 | | 69 | 149 | 20 |
| | Methylene Chloride | 20 | 34.4 | ug/Kg | 172 | 19 | * | 72 | 131 | 20 |
| | trans-1,2-Dichloroethene | 20 | 20.5 | ug/Kg | 103 | 0 | | 80 | 123 | 20 |
| | 1,1-Dichloroethane | 20 | 21.4 | ug/Kg | 107 | 1 | | 82 | 123 | 20 |
| | Cyclohexane | 20 | 21.0 | ug/Kg | 105 | 0 | | 76 | 122 | 20 |
| | 2-Butanone | 100 | 120 | ug/Kg | 120 | 9 | | 69 | 131 | 20 |
| | Carbon Tetrachloride | 20 | 21.1 | ug/Kg | 106 | 0 | | 76 | 129 | 20 |
| | cis-1,2-Dichloroethene | 20 | 20.6 | ug/Kg | 103 | 3 | | 82 | 123 | 20 |
| | Bromochloromethane | 20 | 21.5 | ug/Kg | 108 | 7 | | 80 | 127 | 20 |
| | Chloroform | 20 | 20.9 | ug/Kg | 104 | 1 | | 82 | 125 | 20 |
| | 1,1,1-Trichloroethane | 20 | 21.3 | ug/Kg | 106 | 1 | | 80 | 126 | 20 |
| | Methylcyclohexane | 20 | 21.0 | ug/Kg | 105 | 1 | | 77 | 123 | 20 |
| | Benzene | 20 | 21.3 | ug/Kg | 106 | 2 | | 84 | 121 | 20 |
| | 1,2-Dichloroethane | 20 | 20.3 | ug/Kg | 102 | 4 | | 81 | 126 | 20 |
| | Trichloroethene | 20 | 21.1 | ug/Kg | 106 | 1 | | 83 | 122 | 20 |
| | 1,2-Dichloropropane | 20 | 21.7 | ug/Kg | 109 | 5 | | 83 | 122 | 20 |
| | Bromodichloromethane | 20 | 20.7 | ug/Kg | 104 | 2 | | 82 | 123 | 20 |
| | 4-Methyl-2-Pentanone | 100 | 99.0 | ug/Kg | 99 | 12 | | 70 | 135 | 20 |
| | Toluene | 20 | 20.9 | ug/Kg | 104 | 1 | | 83 | 122 | 20 |
| | t-1,3-Dichloropropene | 20 | 20.2 | ug/Kg | 101 | 4 | | 78 | 124 | 20 |
| | cis-1,3-Dichloropropene | 20 | 21.4 | ug/Kg | 107 | 7 | | 81 | 122 | 20 |
| | 1,1,2-Trichloroethane | 20 | 20.3 | ug/Kg | 102 | 5 | | 82 | 125 | 20 |
| | 2-Hexanone | 100 | 110 | ug/Kg | 110 | 13 | | 66 | 138 | 20 |
| | Dibromochloromethane | 20 | 20.2 | ug/Kg | 101 | 4 | | 79 | 125 | 20 |
| | 1,2-Dibromoethane | 20 | 19.9 | ug/Kg | 100 | 7 | | 80 | 125 | 20 |
| | Tetrachloroethene | 20 | 21.4 | ug/Kg | 107 | 5 | | 83 | 125 | 20 |
| | Chlorobenzene | 20 | 20.9 | ug/Kg | 104 | 0 | | 84 | 122 | 20 |
| | Ethyl Benzene | 20 | 20.7 | ug/Kg | 104 | 0 | | 82 | 124 | 20 |
| | m/p-Xylenes | 40 | 41.4 | ug/Kg | 104 | 0 | | 83 | 124 | 20 |
| | o-Xylene | 20 | 20.1 | ug/Kg | 101 | 1 | | 83 | 123 | 20 |
| | Styrene | 20 | 20.1 | ug/Kg | 101 | 2 | | 82 | 124 | 20 |
| | Bromoform | 20 | 19.5 | ug/Kg | 98 | 6 | | 75 | 127 | 20 |
| | Isopropylbenzene | 20 | 21.3 | ug/Kg | 106 | 2 | | 82 | 124 | 20 |
| | 1,1,2,2-Tetrachloroethane | 20 | 21.0 | ug/Kg | 105 | 13 | | 77 | 127 | 20 |
| | 1,3-Dichlorobenzene | 20 | 21.2 | ug/Kg | 106 | 2 | | 83 | 122 | 20 |
| | 1,4-Dichlorobenzene | 20 | 21.0 | ug/Kg | 105 | 2 | | 84 | 121 | 20 |
| | 1,2-Dichlorobenzene | 20 | 20.8 | ug/Kg | 104 | 3 | | 83 | 124 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

**SDG No.:** Q2514 **Analytical Method:** SW8260D

**Client:** CDM Smith **Datafile :** VY022949.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0707SBSD01 | 1,2-Dibromo-3-Chloropropane | 20 | 18.7 | ug/Kg | 94 | 11 | | 66 | 134 | 20 |
| | 1,2,4-Trichlorobenzene | 20 | 19.7 | ug/Kg | 99 | 7 | | 78 | 127 | 20 |
| | 1,2,3-Trichlorobenzene | 20 | 19.7 | ug/Kg | 99 | 11 | | 70 | 137 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** SW8260D

**Client:** CDM Smith **Datafile :** VY022970.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0708SBS01 | Dichlorodifluoromethane | 20 | 21.8 | ug/Kg | 109 | | | 64 | 136 | |
| | Chloromethane | 20 | 22.7 | ug/Kg | 114 | | | 52 | 151 | |
| | Vinyl chloride | 20 | 21.0 | ug/Kg | 105 | | | 56 | 148 | |
| | Bromomethane | 20 | 23.1 | ug/Kg | 116 | | | 58 | 141 | |
| | Chloroethane | 20 | 21.9 | ug/Kg | 110 | | | 69 | 130 | |
| | Trichlorofluoromethane | 20 | 21.0 | ug/Kg | 105 | | | 69 | 134 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 22.8 | ug/Kg | 114 | | | 81 | 123 | |
| | 1,1-Dichloroethene | 20 | 22.3 | ug/Kg | 112 | | | 79 | 121 | |
| | Acetone | 100 | 160 | ug/Kg | 160 | | | 40 | 171 | |
| | Carbon disulfide | 20 | 21.9 | ug/Kg | 110 | | | 59 | 130 | |
| | Methyl tert-butyl Ether | 20 | 20.7 | ug/Kg | 104 | | | 77 | 129 | |
| | Methyl Acetate | 20 | 18.0 | ug/Kg | 90 | | | 69 | 149 | |
| | Methylene Chloride | 20 | 29.8 | ug/Kg | 149 | | * | 72 | 131 | |
| | trans-1,2-Dichloroethene | 20 | 22.1 | ug/Kg | 111 | | | 80 | 123 | |
| | 1,1-Dichloroethane | 20 | 23.1 | ug/Kg | 116 | | | 82 | 123 | |
| | Cyclohexane | 20 | 22.7 | ug/Kg | 114 | | | 76 | 122 | |
| | 2-Butanone | 100 | 130 | ug/Kg | 130 | | | 69 | 131 | |
| | Carbon Tetrachloride | 20 | 22.3 | ug/Kg | 112 | | | 76 | 129 | |
| | cis-1,2-Dichloroethene | 20 | 22.1 | ug/Kg | 111 | | | 82 | 123 | |
| | Bromochloromethane | 20 | 22.5 | ug/Kg | 113 | | | 80 | 127 | |
| | Chloroform | 20 | 22.7 | ug/Kg | 114 | | | 82 | 125 | |
| | 1,1,1-Trichloroethane | 20 | 22.6 | ug/Kg | 113 | | | 80 | 126 | |
| | Methylcyclohexane | 20 | 22.3 | ug/Kg | 112 | | | 77 | 123 | |
| | Benzene | 20 | 22.9 | ug/Kg | 115 | | | 84 | 121 | |
| | 1,2-Dichloroethane | 20 | 22.2 | ug/Kg | 111 | | | 81 | 126 | |
| | Trichloroethene | 20 | 22.7 | ug/Kg | 114 | | | 83 | 122 | |
| | 1,2-Dichloropropane | 20 | 23.3 | ug/Kg | 117 | | | 83 | 122 | |
| | Bromodichloromethane | 20 | 22.5 | ug/Kg | 113 | | | 82 | 123 | |
| | 4-Methyl-2-Pentanone | 100 | 100 | ug/Kg | 100 | | | 70 | 135 | |
| | Toluene | 20 | 22.2 | ug/Kg | 111 | | | 83 | 122 | |
| | t-1,3-Dichloropropene | 20 | 21.7 | ug/Kg | 109 | | | 78 | 124 | |
| | cis-1,3-Dichloropropene | 20 | 22.5 | ug/Kg | 113 | | | 81 | 122 | |
| | 1,1,2-Trichloroethane | 20 | 21.7 | ug/Kg | 109 | | | 82 | 125 | |
| | 2-Hexanone | 100 | 120 | ug/Kg | 120 | | | 66 | 138 | |
| | Dibromochloromethane | 20 | 21.3 | ug/Kg | 106 | | | 79 | 125 | |
| | 1,2-Dibromoethane | 20 | 20.9 | ug/Kg | 104 | | | 80 | 125 | |
| | Tetrachloroethene | 20 | 23.1 | ug/Kg | 116 | | | 83 | 125 | |
| | Chlorobenzene | 20 | 22.3 | ug/Kg | 112 | | | 84 | 122 | |
| | Ethyl Benzene | 20 | 22.5 | ug/Kg | 113 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 44.2 | ug/Kg | 111 | | | 83 | 124 | |
| | o-Xylene | 20 | 21.8 | ug/Kg | 109 | | | 83 | 123 | |
| | Styrene | 20 | 21.8 | ug/Kg | 109 | | | 82 | 124 | |
| | Bromoform | 20 | 20.2 | ug/Kg | 101 | | | 75 | 127 | |
| | Isopropylbenzene | 20 | 23.1 | ug/Kg | 116 | | | 82 | 124 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 21.2 | ug/Kg | 106 | | | 77 | 127 | |
| | 1,3-Dichlorobenzene | 20 | 22.3 | ug/Kg | 112 | | | 83 | 122 | |
| | 1,4-Dichlorobenzene | 20 | 22.4 | ug/Kg | 112 | | | 84 | 121 | |
| | 1,2-Dichlorobenzene | 20 | 22.0 | ug/Kg | 110 | | | 83 | 124 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q2514** | **Analytical Method:** | **SW8260D** |
| **Client:** | **CDM Smith** | **Datafile :** | VY022970.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VY0708SBS01** | 1,2-Dibromo-3-Chloropropane | 20 | 19.9 | ug/Kg | 100 | | | 66 | 134 | |
| | 1,2,4-Trichlorobenzene | 20 | 20.7 | ug/Kg | 104 | | | 78 | 127 | |
| | 1,2,3-Trichlorobenzene | 20 | 19.9 | ug/Kg | 100 | | | 70 | 137 | |

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# VOLATILE METHOD BLANK SUMMARY

Client ID: VW0709SBL01

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

Lab File ID: VW031768.D Lab Sample ID: VW0709SBL01

Date Analyzed: 07/09/2025 Time Analyzed: 10:58

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

Instrument ID: MSVOA_W

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VW0709SBS01 | VW0709SBS01 | VW031769.D | 07/09/2025 |
| TP-103 | Q2514-06 | VW031775.D | 07/09/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

Client ID: VY0707SBL01

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

Lab File ID: VY022947.D Lab Sample ID: VY0707SBL01

Date Analyzed: 07/07/2025 Time Analyzed: 09:44

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 |
|---|---|---|---|
| VY0707SBS01 | VY0707SBS01 | VY022948.D | 07/07/2025 |
| VY0707SBSD01 | VY0707SBSD01 | VY022949.D | 07/07/2025 |
| TP-92 | Q2514-01 | VY022964.D | 07/07/2025 |
| TP-93 | Q2514-02 | VY022965.D | 07/07/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

Client ID: VY0708SBL01

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2514

Lab File ID: VY022969.D | Lab Sample ID: VY0708SBL01

Date Analyzed: 07/08/2025 | Time Analyzed: 11:44

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 |
|---|---|---|---|
| VY0708SBS01 | VY0708SBS01 | VY022970.D | 07/08/2025 |
| TP-94 | Q2514-03 | VY022975.D | 07/08/2025 |
| TP-96 | Q2514-04 | VY022976.D | 07/08/2025 |
| TP-97 | Q2514-05 | VY022977.D | 07/08/2025 |
| TP-36 | Q2514-07 | VY022979.D | 07/08/2025 |
| TP-78 | Q2514-08 | VY022980.D | 07/08/2025 |
| TP-81 | Q2514-09 | VY022981.D | 07/08/2025 |
| TP-90 | Q2514-10 | VY022982.D | 07/08/2025 |

COMMENTS:

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2514

Lab File ID: VW031728.D | BFB Injection Date: 06/30/2025

Instrument ID: MSVOA_W | BFB Injection Time: 08:56

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.7 |
| 75 | 30.0 - 60.0% of mass 95 | 52.1 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 65.4 |
| 175 | 5.0 - 9.0% of mass 174 | 5.4 ( 8.2 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 64.8 ( 99.2 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.1 ( 6.3 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VW031729.D | 06/30/2025 | 09:54 |
| VSTDICC010 | VSTDICC010 | VW031730.D | 06/30/2025 | 10:15 |
| VSTDICC020 | VSTDICC020 | VW031731.D | 06/30/2025 | 10:58 |
| VSTDICCC050 | VSTDICCC050 | VW031732.D | 06/30/2025 | 11:21 |
| VSTDICC100 | VSTDICC100 | VW031733.D | 06/30/2025 | 12:34 |
| VSTDICC150 | VSTDICC150 | VW031734.D | 06/30/2025 | 12:55 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2514

Lab File ID: VW031766.D | BFB Injection Date: 07/09/2025

Instrument ID: MSVOA_W | BFB Injection Time: 08:51

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 18.9 |
| 75 | 30.0 - 60.0% of mass 95 | 52.1 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.8 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 68.4 |
| 175 | 5.0 - 9.0% of mass 174 | 5.3 ( 7.7 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 65 ( 95.1 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.2 ( 6.5 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VW031767.D | 07/09/2025 | 10:00 |
| VW0709SBL01 | VW0709SBL01 | VW031768.D | 07/09/2025 | 10:58 |
| VW0709SBS01 | VW0709SBS01 | VW031769.D | 07/09/2025 | 11:34 |
| TP-103 | Q2514-06 | VW031775.D | 07/09/2025 | 14:56 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2514
Lab File ID: VY022775.D
BFB Injection Date: 06/23/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 10:17
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

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

1-Value is % mass 174

2-Value is % mass 176

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

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

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2514

Lab File ID: VY022945.D | BFB Injection Date: 07/07/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 08:36

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 | 20.9 |
| 75 | 30.0 - 60.0% of mass 95 | 53.2 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.3 |
| 173 | Less than 2.0% of mass 174 | 1 ( 1.2 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 84 |
| 175 | 5.0 - 9.0% of mass 174 | 6.1 ( 7.2 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 79.8 ( 95 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.4 ( 6.8 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY022946.D | 07/07/2025 | 09:08 |
| VY0707SBL01 | VY0707SBL01 | VY022947.D | 07/07/2025 | 09:44 |
| VY0707SBS01 | VY0707SBS01 | VY022948.D | 07/07/2025 | 10:17 |
| VY0707SBSD01 | VY0707SBSD01 | VY022949.D | 07/07/2025 | 10:40 |
| TP-92 | Q2514-01 | VY022964.D | 07/07/2025 | 16:45 |
| TP-93 | Q2514-02 | VY022965.D | 07/07/2025 | 17:09 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2514

Lab File ID: VY022967.D | BFB Injection Date: 07/08/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 08:30

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 | 21.4 |
| 75 | 30.0 - 60.0% of mass 95 | 54.7 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 1 ( 1.2 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 83.3 |
| 175 | 5.0 - 9.0% of mass 174 | 6.1 ( 7.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 80.1 ( 96.2 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.3 ( 6.6 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY022968.D | 07/08/2025 | 11:15 |
| VY0708SBL01 | VY0708SBL01 | VY022969.D | 07/08/2025 | 11:44 |
| VY0708SBS01 | VY0708SBS01 | VY022970.D | 07/08/2025 | 12:12 |
| TP-94 | Q2514-03 | VY022975.D | 07/08/2025 | 15:03 |
| TP-96 | Q2514-04 | VY022976.D | 07/08/2025 | 15:26 |
| TP-97 | Q2514-05 | VY022977.D | 07/08/2025 | 15:50 |
| TP-36 | Q2514-07 | VY022979.D | 07/08/2025 | 16:37 |
| TP-78 | Q2514-08 | VY022980.D | 07/08/2025 | 17:00 |
| TP-81 | Q2514-09 | VY022981.D | 07/08/2025 | 17:23 |
| TP-90 | Q2514-10 | VY022982.D | 07/08/2025 | 17:47 |

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

Lab File ID: VW031767.D Date Analyzed: 07/09/2025

Instrument ID: MSVOA_W Time Analyzed: 10:00

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 247441 | 7.96 | 422710 | 8.85 | 377094 | 11.63 |
| UPPER LIMIT | 494882 | 8.459 | 845420 | 9.349 | 754188 | 12.129 |
| LOWER LIMIT | 123721 | 7.459 | 211355 | 8.349 | 188547 | 11.129 |
| EPA SAMPLE NO. | | | | | | |
| TP-103 | 196576 | 7.97 | 400527 | 8.86 | 357765 | 11.63 |
| VW0709SBL01 | 208773 | 7.97 | 393637 | 8.85 | 349817 | 11.63 |
| VW0709SBS01 | 187242 | 7.95 | 349121 | 8.85 | 314319 | 11.63 |

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

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

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

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

Lab File ID: VW031767.D Date Analyzed: 07/09/2025

Instrument ID: MSVOA_W Time Analyzed: 10:00

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 179078 | 13.556 | | | | |
| UPPER LIMIT | 358156 | 14.056 | | | | |
| LOWER LIMIT | 89539 | 13.056 | | | | |
| EPA SAMPLE NO. | | | | | | |
| TP-103 | 165193 | 13.56 | | | | |
| VW0709SBL01 | 163801 | 13.56 | | | | |
| VW0709SBS01 | 151914 | 13.56 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

Lab File ID: VY022946.D Date Analyzed: 07/07/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:08

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 | 469181 | 7.71 | 754142 | 8.62 | 648632 | 11.41 |
| UPPER LIMIT | 938362 | 8.207 | 1508280 | 9.116 | 1297260 | 11.914 |
| LOWER LIMIT | 234591 | 7.207 | 377071 | 8.116 | 324316 | 10.914 |
| EPA SAMPLE NO. | | | | | | |
| TP-92 | 278822 | 7.71 | 532794 | 8.62 | 532521 | 11.41 |
| TP-93 | 278769 | 7.71 | 553496 | 8.62 | 549755 | 11.41 |
| VY0707SBL01 | 359794 | 7.71 | 659995 | 8.62 | 632698 | 11.41 |
| VY0707SBS01 | 438661 | 7.71 | 730129 | 8.61 | 612594 | 11.41 |
| VY0707SBSD01 | 433247 | 7.71 | 718134 | 8.62 | 614643 | 11.41 |

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

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

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

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

Lab File ID: VY022946.D Date Analyzed: 07/07/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:08

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 317038 | 13.347 | | | | |
| UPPER LIMIT | 634076 | 13.847 | | | | |
| LOWER LIMIT | 158519 | 12.847 | | | | |
| EPA SAMPLE NO. | | | | | | |
| TP-92 | 221432 | 13.35 | | | | |
| TP-93 | 231894 | 13.34 | | | | |
| VY0707SBL01 | 266428 | 13.35 | | | | |
| VY0707SBS01 | 286401 | 13.35 | | | | |
| VY0707SBSD01 | 290747 | 13.34 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

Lab File ID: VY022968.D Date Analyzed: 07/08/2025

Instrument ID: MSVOA_Y Time Analyzed: 11:15

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 | 422213 | 7.71 | 699147 | 8.62 | 604420 | 11.41 |
| UPPER LIMIT | 844426 | 8.207 | 1398290 | 9.116 | 1208840 | 11.914 |
| LOWER LIMIT | 211107 | 7.207 | 349574 | 8.116 | 302210 | 10.914 |
| EPA SAMPLE NO. | | | | | | |
| TP-94 | 274589 | 7.71 | 526595 | 8.62 | 522704 | 11.41 |
| TP-96 | 295080 | 7.71 | 566250 | 8.62 | 555076 | 11.41 |
| TP-97 | 262340 | 7.71 | 502677 | 8.61 | 519133 | 11.41 |
| TP-36 | 258321 | 7.71 | 491752 | 8.61 | 506681 | 11.41 |
| TP-78 | 255362 | 7.71 | 483185 | 8.62 | 487885 | 11.41 |
| TP-81 | 259223 | 7.71 | 494832 | 8.62 | 487827 | 11.41 |
| TP-90 | 256463 | 7.71 | 488482 | 8.62 | 488896 | 11.41 |
| VY0708SBL01 | 314896 | 7.71 | 593436 | 8.62 | 582188 | 11.41 |
| VY0708SBS01 | 371442 | 7.71 | 616012 | 8.62 | 524718 | 11.41 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

Lab File ID: VY022968.D Date Analyzed: 07/08/2025

Instrument ID: MSVOA_Y Time Analyzed: 11:15

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 299896 | 13.347 | | | | |
| UPPER LIMIT | 599792 | 13.847 | | | | |
| LOWER LIMIT | 149948 | 12.847 | | | | |
| EPA SAMPLE NO. | | | | | | |
| TP-94 | 228112 | 13.35 | | | | |
| TP-96 | 231819 | 13.34 | | | | |
| TP-97 | 237990 | 13.34 | | | | |
| TP-36 | 226768 | 13.34 | | | | |
| TP-78 | 216806 | 13.35 | | | | |
| TP-81 | 213426 | 13.34 | | | | |
| TP-90 | 212620 | 13.34 | | | | |
| VY0708SBL01 | 250516 | 13.34 | | | | |
| VY0708SBS01 | 246530 | 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: | VW0709SBL01 | SDG No.: | Q2514 |
| Lab Sample ID: | VW0709SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW031768.D | 1 | 07/09/25 10:58 | VW070925 |

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | VW0709SBL01 | SDG No.: | Q2514 |
| Lab Sample ID: | VW0709SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW031768.D | 1 | 07/09/25 10:58 | VW070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.92 | U | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.70 | U | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.88 | U | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.91 | U | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.20 | U | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.82 | U | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.71 | U | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.86 | U | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.70 | U | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.50 | U | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.80 | U | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.00 | U | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.20 | U | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 44.4 | | 63 - 155 | 89% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 46.0 | | 70 - 134 | 92% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.6 | | 74 - 123 | 91% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 41.8 | | 17 - 146 | 84% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 209000 | 7.965 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 394000 | 8.849 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 350000 | 11.629 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 164000 | 13.556 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | VW0709SBL01 | SDG No.: | Q2514 |
| Lab Sample ID: | VW0709SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW031768.D | 1 | 07/09/25 10:58 | VW070925 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | VY0707SBL01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0707SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022947.D | 1 | 07/07/25 09:44 | VY070725 |

| 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: | VY0707SBL01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0707SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022947.D | 1 | 07/07/25 09:44 | VY070725 |

| 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 | 45.7 | | 63 - 155 | 91% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.4 | | 70 - 134 | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.9 | | 74 - 123 | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 53.3 | | 17 - 146 | 107% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 360000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 660000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 633000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 266000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | VY0707SBL01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0707SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022947.D | 1 | 07/07/25 09:44 | VY070725 |

| 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: | VY0708SBL01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0708SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022969.D | 1 | 07/08/25 11:44 | VY070825 |

| 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: | VY0708SBL01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0708SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022969.D | 1 | 07/08/25 11:44 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.92 | U | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 3.70 | U | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.88 | U | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.91 | U | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.20 | U | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.82 | U | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.71 | U | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.86 | U | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.70 | U | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.50 | U | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.80 | U | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.00 | U | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.20 | U | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.7 | | 63 - 155 | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.2 | | 70 - 134 | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.8 | | 74 - 123 | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 54.9 | | 17 - 146 | 110% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 315000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 593000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 582000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 251000 | 13.34 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | VY0708SBL01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0708SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022969.D | 1 | 07/08/25 11:44 | VY070825 |

| 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: | VW0709SBS01 | SDG No.: | Q2514 |
| Lab Sample ID: | VW0709SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW031769.D | 1 | 07/09/25 11:34 | VW070925 |

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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | VW0709SBS01 | SDG No.: | Q2514 |
| Lab Sample ID: | VW0709SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW031769.D | 1 | 07/09/25 11:34 | VW070925 |

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | VW0709SBS01 | SDG No.: | Q2514 |
| Lab Sample ID: | VW0709SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW031769.D | 1 | 07/09/25 11:34 | VW070925 |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | VY0707SBS01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0707SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022948.D | 1 | 07/07/25 10:17 | VY070725 |

| 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 | 19.1 | | 1.10 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 18.8 | | 0.79 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 18.8 | | 1.10 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 19.0 | | 1.30 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 19.1 | | 1.20 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.3 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 20.8 | | 1.00 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 140 | | 4.70 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 20.7 | | 1.10 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 18.4 | | 0.73 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 16.6 | | 1.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 28.4 | | 3.50 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 20.6 | | 0.86 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.3 | | 0.80 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 21.0 | | 0.79 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 6.50 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 21.2 | | 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 | 20.2 | | 1.20 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 20.5 | | 0.84 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.0 | | 0.93 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 20.7 | | 0.91 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.7 | | 0.79 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 19.5 | | 0.79 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 21.4 | | 0.81 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 20.8 | | 0.91 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.3 | | 0.78 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 87.9 | | 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: | VY0707SBS01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0707SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022948.D | 1 | 07/07/25 10:17 | VY070725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.3 | | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.0 | | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 19.3 | | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 97.0 | | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 19.3 | | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 18.6 | | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 22.3 | | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.7 | | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.7 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 41.4 | | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.3 | | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 19.8 | | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 18.3 | | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 21.5 | | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18.3 | | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.7 | | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.5 | | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.1 | | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 16.8 | | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 18.4 | | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 17.7 | | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 46.9 | | 63 - 155 | 94% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.5 | | 70 - 134 | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.4 | | 74 - 123 | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.0 | | 17 - 146 | 94% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 439000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 730000 | 8.609 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 613000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 286000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | VY0707SBS01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0707SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022948.D | 1 | 07/07/25 10:17 | VY070725 |

| 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: | VY0708SBS01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0708SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022970.D | 1 | 07/08/25 12:12 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 21.8 | | 1.10 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 22.7 | | 1.10 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 21.0 | | 0.79 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 23.1 | | 1.10 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 21.9 | | 1.30 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 21.0 | | 1.20 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 22.8 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 22.3 | | 1.00 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 160 | | 4.70 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 21.9 | | 1.10 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 20.7 | | 0.73 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 18.0 | | 1.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 29.8 | | 3.50 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 22.1 | | 0.86 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 23.1 | | 0.80 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 22.7 | | 0.79 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 130 | | 6.50 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 22.3 | | 0.97 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 22.1 | | 0.75 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 22.5 | | 1.20 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 22.7 | | 0.84 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 22.6 | | 0.93 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 22.3 | | 0.91 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 22.9 | | 0.79 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 22.2 | | 0.79 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 22.7 | | 0.81 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 23.3 | | 0.91 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 22.5 | | 0.78 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | | 3.60 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 22.2 | | 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: | VY0708SBS01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0708SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022970.D | 1 | 07/08/25 12:12 | VY070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 21.7 | | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 22.5 | | 0.62 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 21.7 | | 0.92 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 120 | | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 21.3 | | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.9 | | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 23.1 | | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 22.3 | | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 22.5 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 44.2 | | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 21.8 | | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 21.8 | | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 20.2 | | 0.86 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 23.1 | | 0.78 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 21.2 | | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 22.3 | | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 22.4 | | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 22.0 | | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.9 | | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.7 | | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19.9 | | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.0 | | 63 - 155 | 104% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.0 | | 70 - 134 | 108% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 53.5 | | 74 - 123 | 107% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.5 | | 17 - 146 | 103% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 371000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 616000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 525000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 247000 | 13.34 | | | |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | VY0708SBS01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0708SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022970.D | 1 | 07/08/25 12:12 | VY070825 |

| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | VY0707SBSD01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0707SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022949.D | 1 | 07/07/25 10:40 | VY070725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 20.5 | | 1.10 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 19.3 | | 1.10 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 18.7 | | 0.79 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 19.0 | | 1.10 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 19.2 | | 1.30 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 19.2 | | 1.20 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.8 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 21.0 | | 1.00 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 150 | | 4.70 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 20.7 | | 1.10 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 19.7 | | 0.73 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 17.0 | | 1.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 34.4 | | 3.50 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 20.5 | | 0.86 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.4 | | 0.80 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 21.0 | | 0.79 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 120 | | 6.50 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 21.1 | | 0.97 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 20.6 | | 0.75 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 21.5 | | 1.20 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 20.9 | | 0.84 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.3 | | 0.93 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 21.0 | | 0.91 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 21.3 | | 0.79 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.3 | | 0.79 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 21.1 | | 0.81 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 21.7 | | 0.91 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.7 | | 0.78 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 99.0 | | 3.60 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 20.9 | | 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: | VY0707SBSD01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0707SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022949.D | 1 | 07/07/25 10:40 | VY070725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 20.2 | | 0.65 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 21.4 | | 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 | 110 | | 3.70 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.2 | | 0.87 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 19.9 | | 0.88 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 21.4 | | 1.10 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.9 | | 0.91 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.7 | | 0.67 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 41.4 | | 1.20 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.1 | | 0.82 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 20.1 | | 0.71 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 19.5 | | 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 | 21.0 | | 1.20 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 21.2 | | 1.70 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 21.0 | | 1.60 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.8 | | 1.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 18.7 | | 1.80 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19.7 | | 3.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19.7 | | 3.20 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.9 | | 63 - 155 | 96% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.4 | | 70 - 134 | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.1 | | 74 - 123 | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.4 | | 17 - 146 | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 433000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 718000 | 8.615 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 615000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 291000 | 13.34 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | VY0707SBSD01 | SDG No.: | Q2514 |
| Lab Sample ID: | VY0707SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY022949.D | 1 | 07/07/25 10:40 | VY070725 |

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

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

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

# CALIBRATION SUMMARY

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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2514

Instrument ID: MSVOA_W | Calibration Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) Y | Calibration Time(s): 09:54 12:55

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

LAB FILE ID: RRF005 = VW031729.D RRF010 = VW031730.D RRF020 = VW031731.D
RRF050 = VW031732.D RRF100 = VW031733.D RRF150 = VW031734.D

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

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

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Fax : 908 789 8922



# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2514

Instrument ID: MSVOA_W | Calibration Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) Y | Calibration Time(s): 09:54 12:55

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

LAB FILE ID: RRF005 = VW031729.D RRF010 = VW031730.D RRF020 = VW031731.D
RRF050 = VW031732.D RRF100 = VW031733.D RRF150 = VW031734.D

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

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

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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2514

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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Fax : 908 789 8922



# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2514

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.

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG No.: Q2514
Instrument ID: MSVOA_W
Calibration Date/Time: 07/09/2025 10:00
Lab File ID: VW031767.D
Init. Calib. Date(s): 06/30/2025 06/30/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 09:54 12:55
GC Column: RXI-624 ID: 0.25 (mm)

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

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2514

Instrument ID: MSVOA_W | Calibration Date/Time: 07/09/2025 10:00

Lab File ID: VW031767.D | Init. Calib. Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) Y | Init. Calib. Time(s): 09:54 12:55

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

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

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2514

Instrument ID: MSVOA_Y | Calibration Date/Time: 07/07/2025 09:08

Lab File ID: VY022946.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 | 0.380 | | -11.22 | 20 |
| Chloromethane | 0.816 | 0.771 | 0.1 | -5.51 | 20 |
| Vinyl Chloride | 1.020 | 0.912 | | -10.59 | 20 |
| Bromomethane | 0.802 | 0.649 | | -19.08 | 20 |
| Chloroethane | 0.686 | 0.623 | | -9.18 | 20 |
| Trichlorofluoromethane | 1.129 | 1.008 | | -10.72 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.516 | 0.504 | | -2.33 | 20 |
| 1,1-Dichloroethene | 0.506 | 0.485 | | -4.15 | 20 |
| Acetone | 0.105 | 0.125 | | 19.05 | 20 |
| Carbon Disulfide | 1.635 | 1.542 | | -5.69 | 20 |
| Methyl tert-butyl Ether | 1.378 | 1.304 | | -5.37 | 20 |
| Methyl Acetate | 0.349 | 0.311 | | -10.89 | 20 |
| Methylene Chloride | 0.666 | 0.591 | | -11.26 | 20 |
| trans-1,2-Dichloroethene | 0.578 | 0.557 | | -3.63 | 20 |
| 1,1-Dichloroethane | 1.044 | 1.033 | 0.1 | -1.05 | 20 |
| Cyclohexane | 0.959 | 0.918 | | -4.28 | 20 |
| 2-Butanone | 0.154 | 0.158 | | 2.6 | 20 |
| Carbon Tetrachloride | 0.486 | 0.497 | | 2.26 | 20 |
| cis-1,2-Dichloroethene | 0.672 | 0.646 | | -3.87 | 20 |
| Bromochloromethane | 0.439 | 0.443 | | 0.91 | 20 |
| Chloroform | 1.076 | 1.037 | | -3.54 | 20 |
| 1,1,1-Trichloroethane | 0.929 | 0.915 | | -1.51 | 20 |
| Methylcyclohexane | 0.596 | 0.610 | | 2.35 | 20 |
| Benzene | 1.417 | 1.451 | | 2.4 | 20 |
| 1,2-Dichloroethane | 0.388 | 0.385 | | -0.77 | 20 |
| Trichloroethene | 0.356 | 0.363 | | 1.97 | 20 |
| 1,2-Dichloropropane | 0.332 | 0.341 | | 2.71 | 20 |
| Bromodichloromethane | 0.485 | 0.491 | | 1.24 | 20 |
| 4-Methyl-2-Pentanone | 0.210 | 0.217 | | 3.33 | 20 |
| Toluene | 0.894 | 0.904 | | 1.12 | 20 |
| t-1,3-Dichloropropene | 0.437 | 0.448 | | 2.52 | 20 |
| cis-1,3-Dichloropropene | 0.506 | 0.524 | | 3.56 | 20 |
| 1,1,2-Trichloroethane | 0.244 | 0.246 | | 0.82 | 20 |
| 2-Hexanone | 0.143 | 0.151 | | 5.59 | 20 |
| Dibromochloromethane | 0.315 | 0.319 | | 1.27 | 20 |
| 1,2-Dibromoethane | 0.228 | 0.227 | | -0.44 | 20 |
| Tetrachloroethene | 0.472 | 0.483 | | 2.33 | 20 |
| Chlorobenzene | 1.099 | 1.117 | 0.3 | 1.64 | 20 |

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2514

Instrument ID: MSVOA_Y | Calibration Date/Time: 07/07/2025 09:08

Lab File ID: VY022946.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 | 2.005 | | 3.89 | 20 |
| m/p-Xylenes | 0.746 | 0.775 | | 3.89 | 20 |
| o-Xylene | 0.703 | 0.715 | | 1.71 | 20 |
| Styrene | 1.178 | 1.211 | | 2.8 | 20 |
| Bromoform | 0.207 | 0.206 | 0.1 | -0.48 | 20 |
| Isopropylbenzene | 3.698 | 3.864 | | 4.49 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.596 | 0.609 | 0.3 | 2.18 | 20 |
| 1,3-Dichlorobenzene | 1.683 | 1.729 | | 2.73 | 20 |
| 1,4-Dichlorobenzene | 1.672 | 1.691 | | 1.14 | 20 |
| 1,2-Dichlorobenzene | 1.483 | 1.504 | | 1.42 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.101 | 0.101 | | 0 | 20 |
| 1,2,4-Trichlorobenzene | 0.838 | 0.846 | | 0.95 | 20 |
| 1,2,3-Trichlorobenzene | 0.724 | 0.712 | | -1.66 | 20 |
| 1,2-Dichloroethane-d4 | 0.558 | 0.526 | | -5.74 | 20 |
| Dibromofluoromethane | 0.304 | 0.304 | | 0 | 20 |
| Toluene-d8 | 1.207 | 1.210 | | 0.25 | 20 |
| 4-Bromofluorobenzene | 0.388 | 0.394 | | 1.55 | 20 |

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2514

Instrument ID: MSVOA_Y | Calibration Date/Time: 07/08/2025 11:15

Lab File ID: VY022968.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 | 0.354 | | -17.29 | 20 |
| Chloromethane | 0.816 | 0.814 | 0.1 | -0.25 | 20 |
| Vinyl Chloride | 1.020 | 0.965 | | -5.39 | 20 |
| Bromomethane | 0.802 | 0.764 | | -4.74 | 20 |
| Chloroethane | 0.686 | 0.670 | | -2.33 | 20 |
| Trichlorofluoromethane | 1.129 | 1.053 | | -6.73 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.516 | 0.487 | | -5.62 | 20 |
| 1,1-Dichloroethene | 0.506 | 0.476 | | -5.93 | 20 |
| Acetone | 0.105 | 0.122 | | 16.19 | 20 |
| Carbon Disulfide | 1.635 | 1.468 | | -10.21 | 20 |
| Methyl tert-butyl Ether | 1.378 | 1.374 | | -0.29 | 20 |
| Methyl Acetate | 0.349 | 0.354 | | 1.43 | 20 |
| Methylene Chloride | 0.666 | 0.638 | | -4.2 | 20 |
| trans-1,2-Dichloroethene | 0.578 | 0.544 | | -5.88 | 20 |
| 1,1-Dichloroethane | 1.044 | 1.034 | 0.1 | -0.96 | 20 |
| Cyclohexane | 0.959 | 0.901 | | -6.05 | 20 |
| 2-Butanone | 0.154 | 0.165 | | 7.14 | 20 |
| Carbon Tetrachloride | 0.486 | 0.476 | | -2.06 | 20 |
| cis-1,2-Dichloroethene | 0.672 | 0.641 | | -4.61 | 20 |
| Bromochloromethane | 0.439 | 0.454 | | 3.42 | 20 |
| Chloroform | 1.076 | 1.046 | | -2.7 | 20 |
| 1,1,1-Trichloroethane | 0.929 | 0.902 | | -2.91 | 20 |
| Methylcyclohexane | 0.596 | 0.582 | | -2.35 | 20 |
| Benzene | 1.417 | 1.404 | | -0.92 | 20 |
| 1,2-Dichloroethane | 0.388 | 0.393 | | 1.29 | 20 |
| Trichloroethene | 0.356 | 0.347 | | -2.53 | 20 |
| 1,2-Dichloropropane | 0.332 | 0.337 | | 1.51 | 20 |
| Bromodichloromethane | 0.485 | 0.482 | | -0.62 | 20 |
| 4-Methyl-2-Pentanone | 0.210 | 0.230 | | 9.52 | 20 |
| Toluene | 0.894 | 0.893 | | -0.11 | 20 |
| t-1,3-Dichloropropene | 0.437 | 0.444 | | 1.6 | 20 |
| cis-1,3-Dichloropropene | 0.506 | 0.518 | | 2.37 | 20 |
| 1,1,2-Trichloroethane | 0.244 | 0.245 | | 0.41 | 20 |
| 2-Hexanone | 0.143 | 0.158 | | 10.49 | 20 |
| Dibromochloromethane | 0.315 | 0.313 | | -0.63 | 20 |
| 1,2-Dibromoethane | 0.228 | 0.231 | | 1.32 | 20 |
| Tetrachloroethene | 0.472 | 0.449 | | -4.87 | 20 |
| Chlorobenzene | 1.099 | 1.090 | 0.3 | -0.82 | 20 |

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG No.: Q2514

Instrument ID: MSVOA_Y | Calibration Date/Time: 07/08/2025 11:15

Lab File ID: VY022968.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 | 1.941 | | 0.57 | 20 |
| m/p-Xylenes | 0.746 | 0.752 | | 0.8 | 20 |
| o-Xylene | 0.703 | 0.706 | | 0.43 | 20 |
| Styrene | 1.178 | 1.195 | | 1.44 | 20 |
| Bromoform | 0.207 | 0.210 | 0.1 | 1.45 | 20 |
| Isopropylbenzene | 3.698 | 3.689 | | -0.24 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.596 | 0.621 | 0.3 | 4.2 | 20 |
| 1,3-Dichlorobenzene | 1.683 | 1.671 | | -0.71 | 20 |
| 1,4-Dichlorobenzene | 1.672 | 1.637 | | -2.09 | 20 |
| 1,2-Dichlorobenzene | 1.483 | 1.455 | | -1.89 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.101 | 0.103 | | 1.98 | 20 |
| 1,2,4-Trichlorobenzene | 0.838 | 0.807 | | -3.7 | 20 |
| 1,2,3-Trichlorobenzene | 0.724 | 0.692 | | -4.42 | 20 |
| 1,2-Dichloroethane-d4 | 0.558 | 0.544 | | -2.51 | 20 |
| Dibromofluoromethane | 0.304 | 0.301 | | -0.99 | 20 |
| Toluene-d8 | 1.207 | 1.196 | | -0.91 | 20 |
| 4-Bromofluorobenzene | 0.388 | 0.385 | | -0.77 | 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:** | Q2514 | **OrderDate:** | 7/3/2025 1:29:00 PM |
| **Client:** | CDM Smith | **Project:** | South River WM Replacement |
| **Contact:** | Marcie Ann Encinas | **Location:** | O21,O22,VOA Lab |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2514-01** | **TP-92** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 07/07/25 | 07/08/25 | |
| **Q2514-02** | **TP-93** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 07/07/25 | 07/07/25 | |
| **Q2514-03** | **TP-94** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 07/07/25 | 07/08/25 | |
| **Q2514-04** | **TP-96** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 07/07/25 | 07/08/25 | |
| **Q2514-05** | **TP-97** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 07/07/25 | 07/08/25 | |
| **Q2514-06** | **TP-103** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 07/07/25 | 07/08/25 | |
| **Q2514-07** | **TP-36** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 07/07/25 | 07/08/25 | |
| **Q2514-08** | **TP-78** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 07/07/25 | 07/08/25 | |
| **Q2514-09** | **TP-81** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 07/07/25 | 07/08/25 | |
| **Q2514-10** | **TP-90** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 07/07/25 | 07/08/25 | |

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



# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2514

**Client:** CDM Smith

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID : TP-92** | | | | | | | | | |
| Q2514-01 | TP-92 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 220.000 | AB | 0 | 0 | ug/Kg |
| Q2514-01 | TP-92 | SOIL | Benzophenone | * | 260.000 | J | 0 | 0 | ug/Kg |
| Q2514-01 | TP-92 | SOIL | Phenyl(2-phenyl-1,3-dioxolan-2-y | * | 190.000 | J | 0 | 0 | ug/Kg |
| Q2514-01 | TP-92 | SOIL | unknown13.716 | * | 97.500 | J | 0 | 0 | ug/Kg |
| Q2514-01 | TP-92 | SOIL | unknown13.886 | * | 99.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **866.50** | | | | |
| | | | **Total Concentration:** | | **866.50** | | | | |
| **Client ID : TP-93** | | | | | | | | | |
| Q2514-02 | TP-93 | SOIL | 1-Octadecanesulphonyl chloride | * | 100.000 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 170.000 | AB | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | Benzophenone | * | 180.000 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | Eicosane | * | 300.000 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | Heptacosane | * | 140.000 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | Heptadecane | * | 130.000 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | Heptadecyl trifluoroacetate | * | 160.000 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | Hexacosane | * | 87.400 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | n-Hexadecanoic acid | * | 150.000 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | Nonadecane | * | 160.000 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | Octacosane | * | 81.300 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | Pentadecane, 2,6,10,14-tetrameth | * | 79.000 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | Tetracosane | * | 100.000 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | Tetradecane | * | 80.900 | J | 0 | 0 | ug/Kg |
| Q2514-02 | TP-93 | SOIL | Tridecane | * | 130.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **2,048.60** | | | | |
| | | | **Total Concentration:** | | **2,048.60** | | | | |
| **Client ID : TP-94** | | | | | | | | | |
| Q2514-03 | TP-94 | SOIL | 1-Heneicosanol | * | 180.000 | J | 0 | 0 | ug/Kg |
| Q2514-03 | TP-94 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 230.000 | AB | 0 | 0 | ug/Kg |
| Q2514-03 | TP-94 | SOIL | 3,6,9,12-Tetraoxatetradecane-1,14 | * | 210.000 | J | 0 | 0 | ug/Kg |
| Q2514-03 | TP-94 | SOIL | Benzophenone | * | 230.000 | J | 0 | 0 | ug/Kg |
| Q2514-03 | TP-94 | SOIL | n-Tetracosanol-1 | * | 210.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **1,060.00** | | | | |
| | | | **Total Concentration:** | | **1,060.00** | | | | |
| **Client ID : TP-96** | | | | | | | | | |
| Q2514-04 | TP-96 | SOIL | Phenanthrene | | 79.200 | J | 24.3 | 200 | ug/Kg |
| Q2514-04 | TP-96 | SOIL | Fluoranthene | | 420.000 | | 34.9 | 200 | ug/Kg |

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# Hit Summary Sheet
## SW-846

**SDG No.:** Q2514

**Client:** CDM Smith

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q2514-04 | TP-96 | SOIL | Pyrene | | 200.000 | | 41.9 | 200 | ug/Kg |
| Q2514-04 | TP-96 | SOIL | Benzo(a)anthracene | | 180.000 | J | 26.8 | 200 | ug/Kg |
| Q2514-04 | TP-96 | SOIL | Chrysene | | 200.000 | | 23.2 | 200 | ug/Kg |
| Q2514-04 | TP-96 | SOIL | Benzo(b)fluoranthene | | 310.000 | | 22.1 | 200 | ug/Kg |
| Q2514-04 | TP-96 | SOIL | Benzo(k)fluoranthene | | 140.000 | J | 26.1 | 200 | ug/Kg |
| Q2514-04 | TP-96 | SOIL | Benzo(a)pyrene | | 210.000 | | 34.3 | 200 | ug/Kg |
| Q2514-04 | TP-96 | SOIL | Indeno(1,2,3-cd)pyrene | | 79.300 | J | 33.9 | 200 | ug/Kg |
| Q2514-04 | TP-96 | SOIL | Benzo(g,h,i)perylene | | 96.500 | J | 29.9 | 200 | ug/Kg |
| | | | **Total Svoc :** | | **1,915.00** | | | | |
| Q2514-04 | TP-96 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 170.000 | AB | 0 | 0 | ug/Kg |
| Q2514-04 | TP-96 | SOIL | Benzo[e]pyrene | * | 160.000 | J | 0 | 0 | ug/Kg |
| Q2514-04 | TP-96 | SOIL | Benzophenone | * | 170.000 | J | 0 | 0 | ug/Kg |
| Q2514-04 | TP-96 | SOIL | unknown13.904 | * | 140.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **640.00** | | | | |
| | | | **Total Concentration:** | | **2,555.00** | | | | |
| **Client ID :** | **TP-97** | | | | | | | | |
| Q2514-05 | TP-97 | SOIL | Fluoranthene | | 92.400 | J | 35.2 | 200 | ug/Kg |
| Q2514-05 | TP-97 | SOIL | Pyrene | | 86.500 | J | 42.3 | 200 | ug/Kg |
| Q2514-05 | TP-97 | SOIL | Chrysene | | 80.800 | J | 23.4 | 200 | ug/Kg |
| Q2514-05 | TP-97 | SOIL | Benzo(b)fluoranthene | | 120.000 | J | 22.3 | 200 | ug/Kg |
| Q2514-05 | TP-97 | SOIL | Benzo(a)pyrene | | 87.500 | J | 34.6 | 200 | ug/Kg |
| | | | **Total Svoc :** | | **467.20** | | | | |
| Q2514-05 | TP-97 | SOIL | Benzophenone | * | 230.000 | J | 0 | 0 | ug/Kg |
| Q2514-05 | TP-97 | SOIL | 2,2-(Ethane-1,2-diylbis(oxy))bis( | * | 150.000 | J | 0 | 0 | ug/Kg |
| Q2514-05 | TP-97 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 210.000 | AB | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **590.00** | | | | |
| | | | **Total Concentration:** | | **1,057.20** | | | | |
| **Client ID :** | **TP-103** | | | | | | | | |
| Q2514-06 | TP-103 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 220.000 | AB | 0 | 0 | ug/Kg |
| Q2514-06 | TP-103 | SOIL | Benzophenone | * | 170.000 | J | 0 | 0 | ug/Kg |
| Q2514-06 | TP-103 | SOIL | Diethylene glycol dibenzoate | * | 120.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **510.00** | | | | |
| | | | **Total Concentration:** | | **510.00** | | | | |
| **Client ID :** | **TP-36** | | | | | | | | |
| Q2514-07 | TP-36 | SOIL | 1-Hexadecanol | * | 200.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 200.000 | AB | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Benzophenone | * | 270.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Eicosane | * | 6,300.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Heneicosane | * | 540.000 | J | 0 | 0 | ug/Kg |

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# Hit Summary Sheet
## SW-846

**SDG No.:** Q2514

**Client:** CDM Smith

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q2514-07 | TP-36 | SOIL | Hentriacontane | * | 200.000 | JB | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Heptacosane | * | 2,100.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Hexacosane | * | 3,800.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | n-Hexadecanoic acid | * | 1,400.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Octacosane | * | 4,400.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Octacosane, 2-methyl- | * | 310.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Octadecanoic acid | * | 2,000.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Octadecanoic acid, dodecyl ester | * | 630.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Pentacosane | * | 2,400.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Pentadecafluorooctanoic acid, oct | * | 580.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Tetracosane | * | 8,000.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Tetracosane, 11-decyl- | * | 980.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Tetratetracontane | * | 140.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | Tricosane, 2-methyl- | * | 130.000 | J | 0 | 0 | ug/Kg |
| Q2514-07 | TP-36 | SOIL | unknown17.256 | * | 330.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **34,910.00** | | | | |
| | | | **Total Concentration:** | | **34,910.00** | | | | |
| **Client ID :** | **TP-78** | | | | | | | | |
| Q2514-08 | TP-78 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 250.000 | AB | 0 | 0 | ug/Kg |
| Q2514-08 | TP-78 | SOIL | Benzophenone | * | 320.000 | J | 0 | 0 | ug/Kg |
| Q2514-08 | TP-78 | SOIL | Dotriacontane, 1-iodo- | * | 110.000 | J | 0 | 0 | ug/Kg |
| Q2514-08 | TP-78 | SOIL | Octacosane | * | 94.900 | J | 0 | 0 | ug/Kg |
| Q2514-08 | TP-78 | SOIL | Octadecanoic acid | * | 120.000 | J | 0 | 0 | ug/Kg |
| Q2514-08 | TP-78 | SOIL | Octadecyl trifluoroacetate | * | 150.000 | J | 0 | 0 | ug/Kg |
| Q2514-08 | TP-78 | SOIL | Phenyl(2-phenyl-1,3-dioxolan-2-y | * | 180.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **1,224.90** | | | | |
| | | | **Total Concentration:** | | **1,224.90** | | | | |
| **Client ID :** | **TP-81** | | | | | | | | |
| Q2514-09 | TP-81 | SOIL | 2-Bromomethyl-2-phenyl[1,3]dio | * | 190.000 | J | 0 | 0 | ug/Kg |
| Q2514-09 | TP-81 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 200.000 | AB | 0 | 0 | ug/Kg |
| Q2514-09 | TP-81 | SOIL | Benzophenone | * | 230.000 | J | 0 | 0 | ug/Kg |
| Q2514-09 | TP-81 | SOIL | unknown13.886 | * | 140.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **760.00** | | | | |
| | | | **Total Concentration:** | | **760.00** | | | | |
| **Client ID :** | **TP-90** | | | | | | | | |
| Q2514-10 | TP-90 | SOIL | Fluoranthene | | 94.700 | J | 32.7 | 190 | ug/Kg |
| Q2514-10 | TP-90 | SOIL | Benzo(a)anthracene | | 73.500 | J | 25 | 190 | ug/Kg |
| Q2514-10 | TP-90 | SOIL | Chrysene | | 74.000 | J | 21.7 | 190 | ug/Kg |
| Q2514-10 | TP-90 | SOIL | Benzo(b)fluoranthene | | 140.000 | J | 20.7 | 190 | ug/Kg |

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# Hit Summary Sheet
## SW-846

**SDG No.:** Q2514

**Client:** CDM Smith

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q2514-10 | TP-90 | SOIL | Benzo(a)pyrene | | 98.900 | J | 32.1 | 190 | ug/Kg |
| | | | **Total Svoc :** | | **481.10** | | | | |
| Q2514-10 | TP-90 | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 110.000 | AB | 0 | 0 | ug/Kg |
| Q2514-10 | TP-90 | SOIL | Benzo[e]pyrene | * | 77.300 | J | 0 | 0 | ug/Kg |
| Q2514-10 | TP-90 | SOIL | Benzophenone | * | 130.000 | J | 0 | 0 | ug/Kg |
| Q2514-10 | TP-90 | SOIL | N-[(2-Phenyl-1,3-dioxolan-2-yl)m | * | 86.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **403.30** | | | | |
| | | | **Total Concentration:** | | **884.40** | | | | |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 87.4 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143037.D | 1 | 07/07/25 09:00 | 07/08/25 17:07 | PB168737 |

| 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 | 25.2 | U | 25.2 | 190 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 27.8 | U | 27.8 | 190 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 27.9 | U | 27.9 | 190 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 34.2 | U | 34.2 | 190 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 42.8 | U | 42.8 | 190 | ug/Kg |
| 98-86-2 | Acetophenone | 33.7 | U | 33.7 | 190 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 46.9 | U | 46.9 | 380 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 54.1 | U | 54.1 | 91.4 | ug/Kg |
| 67-72-1 | Hexachloroethane | 20.1 | U | 20.1 | 190 | ug/Kg |
| 98-95-3 | Nitrobenzene | 20.9 | U | 20.9 | 190 | ug/Kg |
| 78-59-1 | Isophorone | 37.5 | U | 37.5 | 190 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 66.5 | U | 66.5 | 190 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 74.0 | U | 74.0 | 190 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 35.2 | U | 35.2 | 190 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 32.3 | U | 32.3 | 190 | ug/Kg |
| 91-20-3 | Naphthalene | 25.9 | U | 25.9 | 190 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 40.4 | U | 40.4 | 190 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 28.9 | U | 28.9 | 190 | ug/Kg |
| 105-60-2 | Caprolactam | 59.5 | U | 59.5 | 380 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 32.8 | U | 32.8 | 190 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 29.2 | U | 29.2 | 190 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 130 | U | 130 | 380 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 22.6 | U | 22.6 | 190 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 33.2 | U | 33.2 | 190 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 24.9 | U | 24.9 | 190 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 25.7 | U | 25.7 | 190 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 54.9 | U | 54.9 | 190 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 31.0 | U | 31.0 | 190 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 87.4 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143037.D | 1 | 07/07/25 09:00 | 07/08/25 17:07 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 33.0 | U | 33.0 | 190 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 38.4 | U | 38.4 | 190 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 52.5 | U | 52.5 | 190 | ug/Kg |
| 83-32-9 | Acenaphthene | 24.3 | U | 24.3 | 190 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 260 | U | 260 | 380 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 380 | ug/Kg |
| 132-64-9 | Dibenzofuran | 25.9 | U | 25.9 | 190 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 57.2 | U | 57.2 | 190 | ug/Kg |
| 84-66-2 | Diethylphthalate | 32.3 | U | 32.3 | 190 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 30.5 | U | 30.5 | 190 | ug/Kg |
| 86-73-7 | Fluorene | 28.9 | U | 28.9 | 190 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 73.3 | U | 73.3 | 190 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 380 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 37.6 | U | 37.6 | 190 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 31.8 | U | 31.8 | 190 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 28.9 | U | 28.9 | 190 | ug/Kg |
| 1912-24-9 | Atrazine | 38.8 | U | 38.8 | 190 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 58.6 | U | 58.6 | 380 | ug/Kg |
| 85-01-8 | Phenanthrene | 23.9 | U | 23.9 | 190 | ug/Kg |
| 120-12-7 | Anthracene | 38.0 | U | 38.0 | 190 | ug/Kg |
| 86-74-8 | Carbazole | 35.6 | U | 35.6 | 190 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 54.7 | U | 54.7 | 190 | ug/Kg |
| 206-44-0 | Fluoranthene | 34.3 | U | 34.3 | 190 | ug/Kg |
| 129-00-0 | Pyrene | 41.1 | U | 41.1 | 190 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 81.6 | U | 81.6 | 190 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 41.9 | U | 41.9 | 380 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 26.3 | U | 26.3 | 190 | ug/Kg |
| 218-01-9 | Chrysene | 22.7 | U | 22.7 | 190 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 67.6 | U | 67.6 | 190 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 99.1 | U | 99.1 | 380 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 21.7 | U | 21.7 | 190 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 87.4 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143037.D | 1 | 07/07/25 09:00 | 07/08/25 17:07 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 25.6 | U | 25.6 | 190 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 33.7 | U | 33.7 | 190 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 33.2 | U | 33.2 | 190 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 31.3 | U | 31.3 | 190 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 29.4 | U | 29.4 | 190 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 29.2 | U | 29.2 | 190 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 51.6 | U | 51.6 | 190 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 31.3 | U | 31.3 | 190 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 81.5 | | 18 - 112 | 54% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 81.9 | | 15 - 107 | 55% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 50.8 | | 18 - 107 | 51% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 48.3 | | 20 - 109 | 48% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 59.1 | | 10 - 116 | 39% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 37.4 | | 10 - 105 | 37% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 52200 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 201000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 104000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 167000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 99300 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 124000 | 15.551 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 220 | AB | | 5.08 | ug/Kg |
| 000119-61-9 | Benzophenone | 260 | J | | 10.6 | ug/Kg |
| | unknown13.716 | 97.5 | J | | 13.7 | ug/Kg |
| | unknown13.886 | 99.0 | J | | 13.9 | ug/Kg |
| 005694-69-9 | Phenyl(2-phenyl-1,3-dioxolan-2-yl) | 190 | J | | 13.9 | ug/Kg |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | CDM Smith | | | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | | | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | | | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 87.4 |
| Sample Wt/Vol: | 30.05 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143037.D | 1 | 07/07/25 09:00 | 07/08/25 17:07 | PB168737 |

| 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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 87.7 |
| 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 |
|---|---|---|---|---|
| BF143015.D | 1 | 07/07/25 09:00 | 07/07/25 18:21 | PB168737 |

| 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 | 25.2 | U | 25.2 | 190 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 27.7 | U | 27.7 | 190 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 27.8 | U | 27.8 | 190 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 34.1 | U | 34.1 | 190 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 42.7 | U | 42.7 | 190 | ug/Kg |
| 98-86-2 | Acetophenone | 33.6 | U | 33.6 | 190 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 46.8 | U | 46.8 | 380 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 54.0 | U | 54.0 | 91.2 | ug/Kg |
| 67-72-1 | Hexachloroethane | 20.1 | U | 20.1 | 190 | ug/Kg |
| 98-95-3 | Nitrobenzene | 20.9 | U | 20.9 | 190 | ug/Kg |
| 78-59-1 | Isophorone | 37.4 | U | 37.4 | 190 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 66.3 | U | 66.3 | 190 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 73.9 | U | 73.9 | 190 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 35.1 | U | 35.1 | 190 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 32.3 | U | 32.3 | 190 | ug/Kg |
| 91-20-3 | Naphthalene | 25.9 | U | 25.9 | 190 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 40.4 | U | 40.4 | 190 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 28.8 | U | 28.8 | 190 | ug/Kg |
| 105-60-2 | Caprolactam | 59.4 | U | 59.4 | 380 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 32.7 | U | 32.7 | 190 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 29.2 | U | 29.2 | 190 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 130 | U | 130 | 380 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 22.6 | U | 22.6 | 190 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 33.2 | U | 33.2 | 190 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 24.8 | U | 24.8 | 190 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 25.6 | U | 25.6 | 190 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 54.8 | U | 54.8 | 190 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 30.9 | U | 30.9 | 190 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 87.7 |
| 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 |
|---|---|---|---|---|
| BF143015.D | 1 | 07/07/25 09:00 | 07/07/25 18:21 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 32.9 | U | 32.9 | 190 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 38.3 | U | 38.3 | 190 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 52.4 | U | 52.4 | 190 | ug/Kg |
| 83-32-9 | Acenaphthene | 24.3 | U | 24.3 | 190 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 260 | U | 260 | 380 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 380 | ug/Kg |
| 132-64-9 | Dibenzofuran | 25.9 | U | 25.9 | 190 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 57.1 | U | 57.1 | 190 | ug/Kg |
| 84-66-2 | Diethylphthalate | 32.3 | U | 32.3 | 190 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 30.4 | U | 30.4 | 190 | ug/Kg |
| 86-73-7 | Fluorene | 28.8 | U | 28.8 | 190 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 73.2 | U | 73.2 | 190 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 380 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 37.5 | U | 37.5 | 190 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 31.7 | U | 31.7 | 190 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 28.8 | U | 28.8 | 190 | ug/Kg |
| 1912-24-9 | Atrazine | 38.8 | U | 38.8 | 190 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 58.5 | U | 58.5 | 380 | ug/Kg |
| 85-01-8 | Phenanthrene | 23.8 | U | 23.8 | 190 | ug/Kg |
| 120-12-7 | Anthracene | 38.0 | U | 38.0 | 190 | ug/Kg |
| 86-74-8 | Carbazole | 35.6 | U | 35.6 | 190 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 54.6 | U | 54.6 | 190 | ug/Kg |
| 206-44-0 | Fluoranthene | 34.2 | U | 34.2 | 190 | ug/Kg |
| 129-00-0 | Pyrene | 41.0 | U | 41.0 | 190 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 81.4 | U | 81.4 | 190 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 41.8 | U | 41.8 | 380 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 26.2 | U | 26.2 | 190 | ug/Kg |
| 218-01-9 | Chrysene | 22.7 | U | 22.7 | 190 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 67.5 | U | 67.5 | 190 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 98.9 | U | 98.9 | 380 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 21.7 | U | 21.7 | 190 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 87.7 |
| 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 |
|---|---|---|---|---|
| BF143015.D | 1 | 07/07/25 09:00 | 07/07/25 18:21 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 25.5 | U | 25.5 | 190 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 33.6 | U | 33.6 | 190 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 33.2 | U | 33.2 | 190 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 31.2 | U | 31.2 | 190 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 29.3 | U | 29.3 | 190 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 29.2 | U | 29.2 | 190 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 51.5 | U | 51.5 | 190 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 31.2 | U | 31.2 | 190 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 62.0 | | 18 - 112 | 41% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 57.7 | | 15 - 107 | 38% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 41.0 | | 18 - 107 | 41% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 41.4 | | 20 - 109 | 41% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 60.4 | | 10 - 116 | 40% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 28.0 | | 10 - 105 | 28% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 51000 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 169000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 78800 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 138000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 140000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 107000 | 15.545 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 170 | AB | | 5.08 | ug/Kg |
| 000629-59-4 | Tetradecane | 80.9 | J | | 9.31 | ug/Kg |
| 1000342-70-4 | 1-Octadecanesulphonyl chloride | 100 | J | | 9.63 | ug/Kg |
| 000629-50-5 | Tridecane | 130 | J | | 9.84 | ug/Kg |
| 000629-92-5 | Nonadecane | 160 | J | | 10.3 | ug/Kg |
| 000630-01-3 | Hexacosane | 87.4 | J | | 10.6 | ug/Kg |
| 000119-61-9 | Benzophenone | 180 | J | | 10.6 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 87.7 |
| 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 |
|---|---|---|---|---|
| BF143015.D | 1 | 07/07/25 09:00 | 07/07/25 18:21 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 000112-95-8 | Eicosane | 300 | J | | 10.8 | ug/Kg |
| 000593-49-7 | Heptacosane | 140 | J | | 11.3 | ug/Kg |
| 001921-70-6 | Pentadecane, 2,6,10,14-tetramethyl | 79.0 | J | | 11.3 | ug/Kg |
| 000629-78-7 | Heptadecane | 130 | J | | 11.7 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 150 | J | | 11.9 | ug/Kg |
| 000646-31-1 | Tetracosane | 100 | J | | 12.1 | ug/Kg |
| 000630-02-4 | Octacosane | 81.3 | J | | 12.5 | ug/Kg |
| 1010351-87-0 | Heptadecyl trifluoroacetate | 160 | J | | 13.9 | 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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 88.1 |
| 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 |
|---|---|---|---|---|
| BF143036.D | 1 | 07/07/25 09:00 | 07/08/25 16:36 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 180 | U | 180 | 370 | ug/Kg |
| 108-95-2 | Phenol | 25.1 | U | 25.1 | 190 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 27.6 | U | 27.6 | 190 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 27.7 | U | 27.7 | 190 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 33.9 | U | 33.9 | 190 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 42.5 | U | 42.5 | 190 | ug/Kg |
| 98-86-2 | Acetophenone | 33.5 | U | 33.5 | 190 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 46.6 | U | 46.6 | 370 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 53.8 | U | 53.8 | 90.7 | ug/Kg |
| 67-72-1 | Hexachloroethane | 20.0 | U | 20.0 | 190 | ug/Kg |
| 98-95-3 | Nitrobenzene | 20.8 | U | 20.8 | 190 | ug/Kg |
| 78-59-1 | Isophorone | 37.2 | U | 37.2 | 190 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 66.0 | U | 66.0 | 190 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 73.5 | U | 73.5 | 190 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 34.9 | U | 34.9 | 190 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 32.1 | U | 32.1 | 190 | ug/Kg |
| 91-20-3 | Naphthalene | 25.7 | U | 25.7 | 190 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 40.2 | U | 40.2 | 190 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 28.7 | U | 28.7 | 190 | ug/Kg |
| 105-60-2 | Caprolactam | 59.1 | U | 59.1 | 370 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 32.6 | U | 32.6 | 190 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 29.0 | U | 29.0 | 190 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 130 | U | 130 | 370 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 22.5 | U | 22.5 | 190 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 33.0 | U | 33.0 | 190 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 24.7 | U | 24.7 | 190 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 25.5 | U | 25.5 | 190 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 54.6 | U | 54.6 | 190 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 30.7 | U | 30.7 | 190 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 88.1 |
| 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 |
|---|---|---|---|---|
| BF143036.D | 1 | 07/07/25 09:00 | 07/08/25 16:36 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 32.8 | U | 32.8 | 190 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 38.1 | U | 38.1 | 190 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 52.2 | U | 52.2 | 190 | ug/Kg |
| 83-32-9 | Acenaphthene | 24.2 | U | 24.2 | 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 | 25.7 | U | 25.7 | 190 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 56.8 | U | 56.8 | 190 | ug/Kg |
| 84-66-2 | Diethylphthalate | 32.1 | U | 32.1 | 190 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 30.3 | U | 30.3 | 190 | ug/Kg |
| 86-73-7 | Fluorene | 28.7 | U | 28.7 | 190 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 72.8 | U | 72.8 | 190 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 370 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 37.3 | U | 37.3 | 190 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 31.5 | U | 31.5 | 190 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 28.7 | U | 28.7 | 190 | ug/Kg |
| 1912-24-9 | Atrazine | 38.6 | U | 38.6 | 190 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 58.2 | U | 58.2 | 370 | ug/Kg |
| 85-01-8 | Phenanthrene | 23.7 | U | 23.7 | 190 | ug/Kg |
| 120-12-7 | Anthracene | 37.8 | U | 37.8 | 190 | ug/Kg |
| 86-74-8 | Carbazole | 35.4 | U | 35.4 | 190 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 54.3 | U | 54.3 | 190 | ug/Kg |
| 206-44-0 | Fluoranthene | 34.0 | U | 34.0 | 190 | ug/Kg |
| 129-00-0 | Pyrene | 40.8 | U | 40.8 | 190 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 81.0 | U | 81.0 | 190 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 41.6 | U | 41.6 | 370 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 26.1 | U | 26.1 | 190 | ug/Kg |
| 218-01-9 | Chrysene | 22.6 | U | 22.6 | 190 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 67.2 | U | 67.2 | 190 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 98.5 | U | 98.5 | 370 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 21.6 | U | 21.6 | 190 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 88.1 |
| 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 |
|---|---|---|---|---|
| BF143036.D | 1 | 07/07/25 09:00 | 07/08/25 16:36 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 25.4 | U | 25.4 | 190 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 33.5 | U | 33.5 | 190 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 33.0 | U | 33.0 | 190 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 31.1 | U | 31.1 | 190 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 29.2 | U | 29.2 | 190 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 29.0 | U | 29.0 | 190 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 51.3 | U | 51.3 | 190 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 31.1 | U | 31.1 | 190 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 80.1 | | 18 - 112 | 53% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 80.7 | | 15 - 107 | 54% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 51.9 | | 18 - 107 | 52% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 55.1 | | 20 - 109 | 55% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 56.5 | | 10 - 116 | 38% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 37.5 | | 10 - 105 | 37% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 53300 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 200000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 97900 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 139000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 104000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 131000 | 15.551 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 230 | AB | | 5.08 | ug/Kg |
| 000119-61-9 | Benzophenone | 230 | J | | 10.6 | ug/Kg |
| 015594-90-8 | 1-Heneicosanol | 180 | J | | 13.9 | ug/Kg |
| 1000366-97-0 | 3,6,9,12-Tetraoxatetradecane-1,14- | 210 | J | | 13.9 | ug/Kg |
| 000506-51-4 | n-Tetracosanol-1 | 210 | J | | 14.5 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 88.1 |
| 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 |
|---|---|---|---|---|
| BF143036.D | 1 | 07/07/25 09:00 | 07/08/25 16:36 | PB168737 |

| 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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 85.8 |
| 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 |
|---|---|---|---|---|
| BF143046.D | 1 | 07/07/25 09:00 | 07/08/25 21:42 | PB168737 |

| 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 | 25.7 | U | 25.7 | 200 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 28.3 | U | 28.3 | 200 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 28.4 | U | 28.4 | 200 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 34.8 | U | 34.8 | 200 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 43.6 | U | 43.6 | 200 | ug/Kg |
| 98-86-2 | Acetophenone | 34.3 | U | 34.3 | 200 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 47.8 | U | 47.8 | 380 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 55.2 | U | 55.2 | 93.1 | 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 | 38.2 | U | 38.2 | 200 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 67.7 | U | 67.7 | 200 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 75.4 | U | 75.4 | 200 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 35.8 | U | 35.8 | 200 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 32.9 | U | 32.9 | 200 | ug/Kg |
| 91-20-3 | Naphthalene | 26.4 | U | 26.4 | 200 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 41.2 | U | 41.2 | 200 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 29.4 | U | 29.4 | 200 | ug/Kg |
| 105-60-2 | Caprolactam | 60.6 | U | 60.6 | 380 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 33.4 | U | 33.4 | 200 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 29.8 | U | 29.8 | 200 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 140 | U | 140 | 380 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 23.0 | U | 23.0 | 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 | 56.0 | U | 56.0 | 200 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 31.5 | U | 31.5 | 200 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 85.8 |
| 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 |
|---|---|---|---|---|
| BF143046.D | 1 | 07/07/25 09:00 | 07/08/25 21:42 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 33.6 | U | 33.6 | 200 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 39.1 | U | 39.1 | 200 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 53.5 | U | 53.5 | 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 | 26.4 | U | 26.4 | 200 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 58.3 | U | 58.3 | 200 | ug/Kg |
| 84-66-2 | Diethylphthalate | 32.9 | U | 32.9 | 200 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 31.1 | U | 31.1 | 200 | ug/Kg |
| 86-73-7 | Fluorene | 29.4 | U | 29.4 | 200 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 74.7 | U | 74.7 | 200 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 380 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 38.3 | U | 38.3 | 200 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 32.4 | U | 32.4 | 200 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 29.4 | U | 29.4 | 200 | ug/Kg |
| 1912-24-9 | Atrazine | 39.6 | U | 39.6 | 200 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 59.7 | U | 59.7 | 380 | ug/Kg |
| 85-01-8 | Phenanthrene | 79.2 | J | 24.3 | 200 | ug/Kg |
| 120-12-7 | Anthracene | 38.8 | U | 38.8 | 200 | ug/Kg |
| 86-74-8 | Carbazole | 36.3 | U | 36.3 | 200 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 55.8 | U | 55.8 | 200 | ug/Kg |
| 206-44-0 | Fluoranthene | 420 | | 34.9 | 200 | ug/Kg |
| 129-00-0 | Pyrene | 200 | | 41.9 | 200 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 83.1 | U | 83.1 | 200 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 42.7 | U | 42.7 | 380 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 180 | J | 26.8 | 200 | ug/Kg |
| 218-01-9 | Chrysene | 200 | | 23.2 | 200 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 68.9 | U | 68.9 | 200 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 100 | U | 100 | 380 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 310 | | 22.1 | 200 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 85.8 |
| 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 |
|---|---|---|---|---|
| BF143046.D | 1 | 07/07/25 09:00 | 07/08/25 21:42 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 140 | J | 26.1 | 200 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 210 | | 34.3 | 200 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 79.3 | J | 33.9 | 200 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 31.9 | U | 31.9 | 200 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 96.5 | J | 29.9 | 200 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 29.8 | U | 29.8 | 200 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 52.6 | U | 52.6 | 200 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 31.9 | U | 31.9 | 200 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 62.3 | | 18 - 112 | 42% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 61.0 | | 15 - 107 | 41% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 40.3 | | 18 - 107 | 40% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 42.7 | | 20 - 109 | 43% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 55.0 | | 10 - 116 | 37% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 26.4 | | 10 - 105 | 26% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 51500 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 179000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 77200 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 120000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 136000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 113000 | 15.545 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 170 | AB | | 5.08 | ug/Kg |
| 000119-61-9 | Benzophenone | 170 | J | | 10.6 | ug/Kg |
| | unknown13.904 | 140 | J | | 13.9 | ug/Kg |
| 000192-97-2 | Benzo[e]pyrene | 160 | J | | 15.4 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | CDM Smith | | | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | | | Date Received: | 07/03/25 |
| Client Sample ID: | TP-96 | | | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 85.8 |
| 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 |
|---|---|---|---|---|
| BF143046.D | 1 | 07/07/25 09:00 | 07/08/25 21:42 | PB168737 |

| 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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 85 |
| 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 |
|---|---|---|---|---|
| BF143038.D | 1 | 07/07/25 09:00 | 07/08/25 17:37 | PB168737 |

| 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 | 26.0 | U | 26.0 | 200 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 28.5 | U | 28.5 | 200 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 28.7 | U | 28.7 | 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 | 48.3 | U | 48.3 | 390 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 55.7 | U | 55.7 | 94.0 | 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 | 68.4 | U | 68.4 | 200 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 76.1 | U | 76.1 | 200 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 36.2 | U | 36.2 | 200 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 33.2 | U | 33.2 | 200 | ug/Kg |
| 91-20-3 | Naphthalene | 26.7 | U | 26.7 | 200 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 41.6 | U | 41.6 | 200 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 29.7 | U | 29.7 | 200 | ug/Kg |
| 105-60-2 | Caprolactam | 61.2 | U | 61.2 | 390 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 33.7 | U | 33.7 | 200 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 30.1 | U | 30.1 | 200 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 140 | U | 140 | 390 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 23.3 | U | 23.3 | 200 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 34.2 | U | 34.2 | 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 | 56.5 | U | 56.5 | 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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 85 |
| 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 |
|---|---|---|---|---|
| BF143038.D | 1 | 07/07/25 09:00 | 07/08/25 17:37 | PB168737 |

| 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 | 39.5 | U | 39.5 | 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 | 26.7 | U | 26.7 | 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 | 31.4 | U | 31.4 | 200 | ug/Kg |
| 86-73-7 | Fluorene | 29.7 | U | 29.7 | 200 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 75.4 | U | 75.4 | 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 | 32.7 | U | 32.7 | 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 | 60.3 | U | 60.3 | 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 | 56.3 | U | 56.3 | 200 | ug/Kg |
| 206-44-0 | Fluoranthene | 92.4 | J | 35.2 | 200 | ug/Kg |
| 129-00-0 | Pyrene | 86.5 | J | 42.3 | 200 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 83.9 | U | 83.9 | 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 | 80.8 | J | 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 | 120 | J | 22.3 | 200 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 85 |
| 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 |
|---|---|---|---|---|
| BF143038.D | 1 | 07/07/25 09:00 | 07/08/25 17:37 | PB168737 |

| 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 | 87.5 | J | 34.6 | 200 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 34.2 | U | 34.2 | 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 | 30.1 | U | 30.1 | 200 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 53.1 | U | 53.1 | 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 | 74.0 | | 18 - 112 | 49% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 75.6 | | 15 - 107 | 50% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 46.2 | | 18 - 107 | 46% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 44.0 | | 20 - 109 | 44% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 55.6 | | 10 - 116 | 37% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 38.4 | | 10 - 105 | 38% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 53500 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 204000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 108000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 177000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 102000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 129000 | 15.545 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 210 | AB | | 5.08 | ug/Kg |
| 000119-61-9 | Benzophenone | 230 | J | | 10.6 | ug/Kg |
| 1000366-99-4 | 2,2-(Ethane-1,2-diylbis(oxy))bis( | 150 | J | | 13.9 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 85 |
| 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 |
|---|---|---|---|---|
| BF143038.D | 1 | 07/07/25 09:00 | 07/08/25 17:37 | PB168737 |

| 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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.5 |
| 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 |
|---|---|---|---|---|
| BF143044.D | 1 | 07/07/25 09:00 | 07/08/25 20:42 | PB168737 |

| 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 | 25.5 | U | 25.5 | 200 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 28.1 | U | 28.1 | 200 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 28.2 | U | 28.2 | 200 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 34.5 | U | 34.5 | 200 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 43.3 | U | 43.3 | 200 | ug/Kg |
| 98-86-2 | Acetophenone | 34.1 | U | 34.1 | 200 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 47.5 | U | 47.5 | 380 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 54.7 | U | 54.7 | 92.4 | ug/Kg |
| 67-72-1 | Hexachloroethane | 20.3 | U | 20.3 | 200 | ug/Kg |
| 98-95-3 | Nitrobenzene | 21.1 | U | 21.1 | 200 | ug/Kg |
| 78-59-1 | Isophorone | 37.9 | U | 37.9 | 200 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 67.2 | U | 67.2 | 200 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 74.8 | U | 74.8 | 200 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 35.6 | U | 35.6 | 200 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 32.7 | U | 32.7 | 200 | ug/Kg |
| 91-20-3 | Naphthalene | 26.2 | U | 26.2 | 200 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 40.9 | U | 40.9 | 200 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 29.2 | U | 29.2 | 200 | ug/Kg |
| 105-60-2 | Caprolactam | 60.2 | U | 60.2 | 380 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 33.1 | U | 33.1 | 200 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 29.6 | U | 29.6 | 200 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 130 | U | 130 | 380 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 22.9 | U | 22.9 | 200 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 33.6 | U | 33.6 | 200 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 25.2 | U | 25.2 | 200 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 26.0 | U | 26.0 | 200 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 55.6 | U | 55.6 | 200 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 31.3 | U | 31.3 | 200 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.5 |
| 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 |
|---|---|---|---|---|
| BF143044.D | 1 | 07/07/25 09:00 | 07/08/25 20:42 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 33.4 | U | 33.4 | 200 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 38.8 | U | 38.8 | 200 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 53.1 | U | 53.1 | 200 | ug/Kg |
| 83-32-9 | Acenaphthene | 24.6 | U | 24.6 | 200 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 260 | U | 260 | 380 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 380 | ug/Kg |
| 132-64-9 | Dibenzofuran | 26.2 | U | 26.2 | 200 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 57.9 | U | 57.9 | 200 | ug/Kg |
| 84-66-2 | Diethylphthalate | 32.7 | U | 32.7 | 200 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 30.8 | U | 30.8 | 200 | ug/Kg |
| 86-73-7 | Fluorene | 29.2 | U | 29.2 | 200 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 74.1 | U | 74.1 | 200 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 380 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 38.0 | U | 38.0 | 200 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 32.1 | U | 32.1 | 200 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 29.2 | U | 29.2 | 200 | ug/Kg |
| 1912-24-9 | Atrazine | 39.3 | U | 39.3 | 200 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 59.2 | U | 59.2 | 380 | ug/Kg |
| 85-01-8 | Phenanthrene | 24.1 | U | 24.1 | 200 | ug/Kg |
| 120-12-7 | Anthracene | 38.5 | U | 38.5 | 200 | ug/Kg |
| 86-74-8 | Carbazole | 36.0 | U | 36.0 | 200 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 55.3 | U | 55.3 | 200 | ug/Kg |
| 206-44-0 | Fluoranthene | 34.6 | U | 34.6 | 200 | ug/Kg |
| 129-00-0 | Pyrene | 41.6 | U | 41.6 | 200 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 82.5 | U | 82.5 | 200 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 42.4 | U | 42.4 | 380 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 26.6 | U | 26.6 | 200 | ug/Kg |
| 218-01-9 | Chrysene | 23.0 | U | 23.0 | 200 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 68.4 | U | 68.4 | 200 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 100 | U | 100 | 380 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 21.9 | U | 21.9 | 200 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.5 |
| 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 |
|---|---|---|---|---|
| BF143044.D | 1 | 07/07/25 09:00 | 07/08/25 20:42 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 25.9 | U | 25.9 | 200 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 34.1 | U | 34.1 | 200 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 33.6 | U | 33.6 | 200 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 31.6 | U | 31.6 | 200 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 29.7 | U | 29.7 | 200 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 29.6 | U | 29.6 | 200 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 52.2 | U | 52.2 | 200 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 31.6 | U | 31.6 | 200 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 66.8 | | 18 - 112 | 45% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 67.4 | | 15 - 107 | 45% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 44.0 | | 18 - 107 | 44% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 46.5 | | 20 - 109 | 46% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 47.8 | | 10 - 116 | 32% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 28.7 | | 10 - 105 | 29% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 56400 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 203000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 92000 | 9.91 | | | |
| 1517-22-2 | Phenanthrene-d10 | 127000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 130000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 143000 | 15.545 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 220 | AB | | 5.08 | ug/Kg |
| 000119-61-9 | Benzophenone | 170 | J | | 10.6 | ug/Kg |
| 000120-55-8 | Diethylene glycol dibenzoate | 120 | J | | 13.9 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | CDM Smith | | | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | | | Date Received: | 07/03/25 |
| Client Sample ID: | TP-103 | | | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 86.5 |
| 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 |
|---|---|---|---|---|
| BF143044.D | 1 | 07/07/25 09:00 | 07/08/25 20:42 | PB168737 |

| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 90.3 |
| 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 |
|---|---|---|---|---|
| BF143030.D | 1 | 07/07/25 09:00 | 07/08/25 13:31 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 170 | U | 170 | 360 | ug/Kg |
| 108-95-2 | Phenol | 24.4 | U | 24.4 | 190 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 26.9 | U | 26.9 | 190 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 27.0 | U | 27.0 | 190 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 33.0 | U | 33.0 | 190 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 41.4 | U | 41.4 | 190 | ug/Kg |
| 98-86-2 | Acetophenone | 32.6 | U | 32.6 | 190 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 45.4 | U | 45.4 | 360 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 52.4 | U | 52.4 | 88.4 | ug/Kg |
| 67-72-1 | Hexachloroethane | 19.5 | U | 19.5 | 190 | ug/Kg |
| 98-95-3 | Nitrobenzene | 20.2 | U | 20.2 | 190 | ug/Kg |
| 78-59-1 | Isophorone | 36.3 | U | 36.3 | 190 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 64.3 | U | 64.3 | 190 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 71.6 | U | 71.6 | 190 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 34.0 | U | 34.0 | 190 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 31.3 | U | 31.3 | 190 | ug/Kg |
| 91-20-3 | Naphthalene | 25.1 | U | 25.1 | 190 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 39.1 | U | 39.1 | 190 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 28.0 | U | 28.0 | 190 | ug/Kg |
| 105-60-2 | Caprolactam | 57.6 | U | 57.6 | 360 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 31.7 | U | 31.7 | 190 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 28.3 | U | 28.3 | 190 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 130 | U | 130 | 360 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 21.9 | U | 21.9 | 190 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 32.2 | U | 32.2 | 190 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 24.1 | U | 24.1 | 190 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 24.9 | U | 24.9 | 190 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 53.2 | U | 53.2 | 190 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 30.0 | U | 30.0 | 190 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 90.3 |
| 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 |
|---|---|---|---|---|
| BF143030.D | 1 | 07/07/25 09:00 | 07/08/25 13:31 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 31.9 | U | 31.9 | 190 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 37.1 | U | 37.1 | 190 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 50.8 | U | 50.8 | 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 | 25.1 | U | 25.1 | 190 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 55.4 | U | 55.4 | 190 | ug/Kg |
| 84-66-2 | Diethylphthalate | 31.3 | U | 31.3 | 190 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 29.5 | U | 29.5 | 190 | ug/Kg |
| 86-73-7 | Fluorene | 28.0 | U | 28.0 | 190 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 71.0 | U | 71.0 | 190 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 110 | U | 110 | 360 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 36.4 | U | 36.4 | 190 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 30.7 | U | 30.7 | 190 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 28.0 | U | 28.0 | 190 | ug/Kg |
| 1912-24-9 | Atrazine | 37.6 | U | 37.6 | 190 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 56.7 | U | 56.7 | 360 | ug/Kg |
| 85-01-8 | Phenanthrene | 23.1 | U | 23.1 | 190 | ug/Kg |
| 120-12-7 | Anthracene | 36.8 | U | 36.8 | 190 | ug/Kg |
| 86-74-8 | Carbazole | 34.5 | U | 34.5 | 190 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 52.9 | U | 52.9 | 190 | ug/Kg |
| 206-44-0 | Fluoranthene | 33.2 | U | 33.2 | 190 | ug/Kg |
| 129-00-0 | Pyrene | 39.8 | U | 39.8 | 190 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 78.9 | U | 78.9 | 190 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 40.6 | U | 40.6 | 360 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 25.4 | U | 25.4 | 190 | ug/Kg |
| 218-01-9 | Chrysene | 22.0 | U | 22.0 | 190 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 65.4 | U | 65.4 | 190 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 95.9 | U | 95.9 | 360 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 21.0 | U | 21.0 | 190 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 90.3 |
| 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 |
|---|---|---|---|---|
| BF143030.D | 1 | 07/07/25 09:00 | 07/08/25 13:31 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 24.8 | U | 24.8 | 190 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 32.6 | U | 32.6 | 190 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 32.2 | U | 32.2 | 190 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 30.3 | U | 30.3 | 190 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 28.4 | U | 28.4 | 190 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 28.3 | U | 28.3 | 190 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 50.0 | U | 50.0 | 190 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 30.3 | U | 30.3 | 190 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 78.2 | | 18 - 112 | 52% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 79.8 | | 15 - 107 | 53% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 50.7 | | 18 - 107 | 51% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 52.4 | | 20 - 109 | 52% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 56.2 | | 10 - 116 | 37% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 40.6 | | 10 - 105 | 41% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 51600 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 192000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 97400 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 146000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 94000 | 14.057 | | | |
| 1520-96-3 | Perylene-d12 | 120000 | 15.551 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 200 | AB | | 5.09 | ug/Kg |
| 000119-61-9 | Benzophenone | 270 | J | | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 1400 | J | | 11.9 | ug/Kg |
| 000629-94-7 | Heneicosane | 540 | J | | 12.5 | ug/Kg |
| 000057-11-4 | Octadecanoic acid | 2000 | J | | 12.7 | ug/Kg |
| 000593-49-7 | Heptacosane | 2100 | J | | 13.2 | ug/Kg |
| 000630-02-4 | Octacosane | 4400 | J | | 13.8 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 90.3 |
| 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 |
|---|---|---|---|---|
| BF143030.D | 1 | 07/07/25 09:00 | 07/08/25 13:31 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 036653-82-4 | 1-Hexadecanol | 200 | J | | 13.9 | ug/Kg |
| 000112-95-8 | Eicosane | 6300 | J | | 14.3 | ug/Kg |
| 000630-04-6 | Hentriacontane | 200 | JB | | 14.5 | ug/Kg |
| 1000406-04-8 | Pentadecafluorooctanoic acid, octa | 580 | J | | 14.7 | ug/Kg |
| 000646-31-1 | Tetracosane | 8000 | J | | 14.8 | ug/Kg |
| 001928-30-9 | Tricosane, 2-methyl- | 130 | J | | 15.1 | ug/Kg |
| 001560-98-1 | Octacosane, 2-methyl- | 310 | J | | 15.2 | ug/Kg |
| 000630-01-3 | Hexacosane | 3800 | J | | 15.3 | ug/Kg |
| 005303-25-3 | Octadecanoic acid, dodecyl ester | 630 | J | | 15.7 | ug/Kg |
| 000629-99-2 | Pentacosane | 2400 | J | | 15.9 | ug/Kg |
| 007098-22-8 | Tetratetracontane | 140 | J | | 16.0 | ug/Kg |
| 055429-84-0 | Tetracosane, 11-decyl- | 980 | J | | 16.5 | ug/Kg |
| | unknown17.256 | 330 | J | | 17.3 | 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: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| 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 |
|---|---|---|---|---|
| BF143031.D | 1 | 07/07/25 09:00 | 07/08/25 14:02 | PB168737 |

| 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 | 25.6 | U | 25.6 | 200 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 28.1 | U | 28.1 | 200 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 28.2 | U | 28.2 | 200 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 34.6 | U | 34.6 | 200 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 43.4 | U | 43.4 | 200 | ug/Kg |
| 98-86-2 | Acetophenone | 34.1 | U | 34.1 | 200 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 47.6 | U | 47.6 | 380 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 54.9 | U | 54.9 | 92.6 | ug/Kg |
| 67-72-1 | Hexachloroethane | 20.4 | U | 20.4 | 200 | ug/Kg |
| 98-95-3 | Nitrobenzene | 21.2 | U | 21.2 | 200 | ug/Kg |
| 78-59-1 | Isophorone | 38.0 | U | 38.0 | 200 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 67.3 | U | 67.3 | 200 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 75.0 | U | 75.0 | 200 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 35.6 | U | 35.6 | 200 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 32.7 | U | 32.7 | 200 | ug/Kg |
| 91-20-3 | Naphthalene | 26.3 | U | 26.3 | 200 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 41.0 | U | 41.0 | 200 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 29.3 | U | 29.3 | 200 | ug/Kg |
| 105-60-2 | Caprolactam | 60.3 | U | 60.3 | 380 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 33.2 | U | 33.2 | 200 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 29.6 | U | 29.6 | 200 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 130 | U | 130 | 380 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 22.9 | U | 22.9 | 200 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 33.7 | U | 33.7 | 200 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 25.2 | U | 25.2 | 200 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 26.0 | U | 26.0 | 200 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 55.7 | U | 55.7 | 200 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 31.4 | U | 31.4 | 200 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| 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 |
|---|---|---|---|---|
| BF143031.D | 1 | 07/07/25 09:00 | 07/08/25 14:02 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 33.4 | U | 33.4 | 200 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 38.9 | U | 38.9 | 200 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 53.2 | U | 53.2 | 200 | ug/Kg |
| 83-32-9 | Acenaphthene | 24.6 | U | 24.6 | 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 | 26.3 | U | 26.3 | 200 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 58.0 | U | 58.0 | 200 | ug/Kg |
| 84-66-2 | Diethylphthalate | 32.7 | U | 32.7 | 200 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 30.9 | U | 30.9 | 200 | ug/Kg |
| 86-73-7 | Fluorene | 29.3 | U | 29.3 | 200 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 74.3 | U | 74.3 | 200 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 380 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 38.1 | U | 38.1 | 200 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 32.2 | U | 32.2 | 200 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 29.3 | U | 29.3 | 200 | ug/Kg |
| 1912-24-9 | Atrazine | 39.3 | U | 39.3 | 200 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 59.4 | U | 59.4 | 380 | ug/Kg |
| 85-01-8 | Phenanthrene | 24.2 | U | 24.2 | 200 | ug/Kg |
| 120-12-7 | Anthracene | 38.5 | U | 38.5 | 200 | ug/Kg |
| 86-74-8 | Carbazole | 36.1 | U | 36.1 | 200 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 55.4 | U | 55.4 | 200 | ug/Kg |
| 206-44-0 | Fluoranthene | 34.7 | U | 34.7 | 200 | ug/Kg |
| 129-00-0 | Pyrene | 41.7 | U | 41.7 | 200 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 82.6 | U | 82.6 | 200 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 42.5 | U | 42.5 | 380 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 26.6 | U | 26.6 | 200 | ug/Kg |
| 218-01-9 | Chrysene | 23.0 | U | 23.0 | 200 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 68.5 | U | 68.5 | 200 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 100 | U | 100 | 380 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 22.0 | U | 22.0 | 200 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| 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 |
|---|---|---|---|---|
| BF143031.D | 1 | 07/07/25 09:00 | 07/08/25 14:02 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 25.9 | U | 25.9 | 200 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 34.1 | U | 34.1 | 200 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 33.7 | U | 33.7 | 200 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 31.7 | U | 31.7 | 200 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 29.7 | U | 29.7 | 200 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 29.6 | U | 29.6 | 200 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 52.3 | U | 52.3 | 200 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 31.7 | U | 31.7 | 200 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 93.0 | | 18 - 112 | 62% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 95.8 | | 15 - 107 | 64% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 61.0 | | 18 - 107 | 61% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 60.2 | | 20 - 109 | 60% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 67.5 | | 10 - 116 | 45% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 46.7 | | 10 - 105 | 47% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 50600 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 193000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 95900 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 148000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 94400 | 14.057 | | | |
| 1520-96-3 | Perylene-d12 | 118000 | 15.551 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 250 | AB | | 5.09 | ug/Kg |
| 000119-61-9 | Benzophenone | 320 | J | | 10.6 | ug/Kg |
| 000057-11-4 | Octadecanoic acid | 120 | J | | 12.7 | ug/Kg |
| 079392-43-1 | Octadecyl trifluoroacetate | 150 | J | | 13.9 | ug/Kg |
| 1000507-07-6 | Phenyl(2-phenyl-1,3-dioxolan-2-yl) | 180 | J | | 13.9 | ug/Kg |
| 000630-02-4 | Octacosane | 94.9 | J | | 15.2 | ug/Kg |
| 1000406-32-4 | Dotriacontane, 1-iodo- | 110 | J | | 16.0 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| 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 |
|---|---|---|---|---|
| BF143031.D | 1 | 07/07/25 09:00 | 07/08/25 14:02 | PB168737 |

| 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: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| Sample Wt/Vol: | 30.07 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143035.D | 1 | 07/07/25 09:00 | 07/08/25 16:05 | PB168737 |

| 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 | 25.5 | U | 25.5 | 200 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 28.1 | U | 28.1 | 200 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 28.2 | U | 28.2 | 200 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 34.6 | U | 34.6 | 200 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 43.4 | U | 43.4 | 200 | ug/Kg |
| 98-86-2 | Acetophenone | 34.1 | U | 34.1 | 200 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 47.5 | U | 47.5 | 380 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 54.8 | U | 54.8 | 92.5 | ug/Kg |
| 67-72-1 | Hexachloroethane | 20.3 | U | 20.3 | 200 | ug/Kg |
| 98-95-3 | Nitrobenzene | 21.2 | U | 21.2 | 200 | ug/Kg |
| 78-59-1 | Isophorone | 37.9 | U | 37.9 | 200 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 67.3 | U | 67.3 | 200 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 74.9 | U | 74.9 | 200 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 35.6 | U | 35.6 | 200 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 32.7 | U | 32.7 | 200 | ug/Kg |
| 91-20-3 | Naphthalene | 26.2 | U | 26.2 | 200 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 40.9 | U | 40.9 | 200 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 29.2 | U | 29.2 | 200 | ug/Kg |
| 105-60-2 | Caprolactam | 60.2 | U | 60.2 | 380 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 33.2 | U | 33.2 | 200 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 29.6 | U | 29.6 | 200 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 130 | U | 130 | 380 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 22.9 | U | 22.9 | 200 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 33.6 | U | 33.6 | 200 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 25.2 | U | 25.2 | 200 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 26.0 | U | 26.0 | 200 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 55.6 | U | 55.6 | 200 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 31.3 | U | 31.3 | 200 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| Sample Wt/Vol: | 30.07 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143035.D | 1 | 07/07/25 09:00 | 07/08/25 16:05 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 33.4 | U | 33.4 | 200 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 38.8 | U | 38.8 | 200 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 53.2 | U | 53.2 | 200 | ug/Kg |
| 83-32-9 | Acenaphthene | 24.6 | U | 24.6 | 200 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 260 | U | 260 | 380 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 380 | ug/Kg |
| 132-64-9 | Dibenzofuran | 26.2 | U | 26.2 | 200 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 57.9 | U | 57.9 | 200 | ug/Kg |
| 84-66-2 | Diethylphthalate | 32.7 | U | 32.7 | 200 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 30.9 | U | 30.9 | 200 | ug/Kg |
| 86-73-7 | Fluorene | 29.2 | U | 29.2 | 200 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 74.2 | U | 74.2 | 200 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 380 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 38.0 | U | 38.0 | 200 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 32.1 | U | 32.1 | 200 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 29.2 | U | 29.2 | 200 | ug/Kg |
| 1912-24-9 | Atrazine | 39.3 | U | 39.3 | 200 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 59.3 | U | 59.3 | 380 | ug/Kg |
| 85-01-8 | Phenanthrene | 24.2 | U | 24.2 | 200 | ug/Kg |
| 120-12-7 | Anthracene | 38.5 | U | 38.5 | 200 | ug/Kg |
| 86-74-8 | Carbazole | 36.1 | U | 36.1 | 200 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 55.4 | U | 55.4 | 200 | ug/Kg |
| 206-44-0 | Fluoranthene | 34.7 | U | 34.7 | 200 | ug/Kg |
| 129-00-0 | Pyrene | 41.6 | U | 41.6 | 200 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 82.5 | U | 82.5 | 200 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 42.4 | U | 42.4 | 380 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 26.6 | U | 26.6 | 200 | ug/Kg |
| 218-01-9 | Chrysene | 23.0 | U | 23.0 | 200 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 68.4 | U | 68.4 | 200 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 100 | U | 100 | 380 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 22.0 | U | 22.0 | 200 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| Sample Wt/Vol: | 30.07 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143035.D | 1 | 07/07/25 09:00 | 07/08/25 16:05 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 25.9 | U | 25.9 | 200 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 34.1 | U | 34.1 | 200 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 33.6 | U | 33.6 | 200 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 31.7 | U | 31.7 | 200 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 29.7 | U | 29.7 | 200 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 29.6 | U | 29.6 | 200 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 52.3 | U | 52.3 | 200 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 31.7 | U | 31.7 | 200 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 78.9 | | 18 - 112 | 53% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 79.4 | | 15 - 107 | 53% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 51.3 | | 18 - 107 | 51% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 51.6 | | 20 - 109 | 52% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 52.1 | | 10 - 116 | 35% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 35.4 | | 10 - 105 | 35% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 49300 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 187000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 91200 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 135000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 94800 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 120000 | 15.551 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 200 | AB | | 5.08 | ug/Kg |
| 000119-61-9 | Benzophenone | 230 | J | | 10.6 | ug/Kg |
| | unknown13.886 | 140 | J | | 13.9 | ug/Kg |
| 003418-21-1 | 2-Bromomethyl-2-phenyl[1,3]dioxola | 190 | J | | 13.9 | ug/Kg |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | CDM Smith | | | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | | | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | | | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 86.3 |
| Sample Wt/Vol: | 30.07 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143035.D | 1 | 07/07/25 09:00 | 07/08/25 16:05 | PB168737 |

| 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: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 91.6 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143045.D | 1 | 07/07/25 09:00 | 07/08/25 21:12 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 170 | U | 170 | 360 | ug/Kg |
| 108-95-2 | Phenol | 24.1 | U | 24.1 | 190 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 26.5 | U | 26.5 | 190 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 26.6 | U | 26.6 | 190 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 32.6 | U | 32.6 | 190 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 40.8 | U | 40.8 | 190 | ug/Kg |
| 98-86-2 | Acetophenone | 32.1 | U | 32.1 | 190 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 44.7 | U | 44.7 | 360 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 51.6 | U | 51.6 | 87.1 | ug/Kg |
| 67-72-1 | Hexachloroethane | 19.2 | U | 19.2 | 190 | ug/Kg |
| 98-95-3 | Nitrobenzene | 19.9 | U | 19.9 | 190 | ug/Kg |
| 78-59-1 | Isophorone | 35.7 | U | 35.7 | 190 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 63.4 | U | 63.4 | 190 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 70.6 | U | 70.6 | 190 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 33.5 | U | 33.5 | 190 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 30.8 | U | 30.8 | 190 | ug/Kg |
| 91-20-3 | Naphthalene | 24.7 | U | 24.7 | 190 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 38.5 | U | 38.5 | 190 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 27.5 | U | 27.5 | 190 | ug/Kg |
| 105-60-2 | Caprolactam | 56.7 | U | 56.7 | 360 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 31.2 | U | 31.2 | 190 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 27.9 | U | 27.9 | 190 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 130 | U | 130 | 360 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 21.6 | U | 21.6 | 190 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 31.7 | U | 31.7 | 190 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 23.7 | U | 23.7 | 190 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 24.5 | U | 24.5 | 190 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 52.4 | U | 52.4 | 190 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 29.5 | U | 29.5 | 190 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 91.6 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143045.D | 1 | 07/07/25 09:00 | 07/08/25 21:12 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 31.5 | U | 31.5 | 190 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 36.6 | U | 36.6 | 190 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 50.1 | U | 50.1 | 190 | ug/Kg |
| 83-32-9 | Acenaphthene | 23.2 | U | 23.2 | 190 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 250 | U | 250 | 360 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 360 | ug/Kg |
| 132-64-9 | Dibenzofuran | 24.7 | U | 24.7 | 190 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 54.5 | U | 54.5 | 190 | ug/Kg |
| 84-66-2 | Diethylphthalate | 30.8 | U | 30.8 | 190 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 29.1 | U | 29.1 | 190 | ug/Kg |
| 86-73-7 | Fluorene | 27.5 | U | 27.5 | 190 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 69.9 | U | 69.9 | 190 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 110 | U | 110 | 360 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 35.8 | U | 35.8 | 190 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 30.3 | U | 30.3 | 190 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 27.5 | U | 27.5 | 190 | ug/Kg |
| 1912-24-9 | Atrazine | 37.0 | U | 37.0 | 190 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 55.9 | U | 55.9 | 360 | ug/Kg |
| 85-01-8 | Phenanthrene | 22.8 | U | 22.8 | 190 | ug/Kg |
| 120-12-7 | Anthracene | 36.3 | U | 36.3 | 190 | ug/Kg |
| 86-74-8 | Carbazole | 34.0 | U | 34.0 | 190 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 52.2 | U | 52.2 | 190 | ug/Kg |
| 206-44-0 | Fluoranthene | 94.7 | J | 32.7 | 190 | ug/Kg |
| 129-00-0 | Pyrene | 39.2 | U | 39.2 | 190 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 77.7 | U | 77.7 | 190 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 40.0 | U | 40.0 | 360 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 73.5 | J | 25.0 | 190 | ug/Kg |
| 218-01-9 | Chrysene | 74.0 | J | 21.7 | 190 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 64.5 | U | 64.5 | 190 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 94.5 | U | 94.5 | 360 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 140 | J | 20.7 | 190 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 91.6 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143045.D | 1 | 07/07/25 09:00 | 07/08/25 21:12 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 24.4 | U | 24.4 | 190 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 98.9 | J | 32.1 | 190 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 31.7 | U | 31.7 | 190 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 29.8 | U | 29.8 | 190 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 28.0 | U | 28.0 | 190 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 27.9 | U | 27.9 | 190 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 49.2 | U | 49.2 | 190 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 29.8 | U | 29.8 | 190 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 48.7 | | 18 - 112 | 32% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 47.1 | | 15 - 107 | 31% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 34.4 | | 18 - 107 | 34% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 38.3 | | 20 - 109 | 38% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 41.7 | | 10 - 116 | 28% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 23.7 | | 10 - 105 | 24% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 51700 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 174000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 74700 | 9.91 | | | |
| 1517-22-2 | Phenanthrene-d10 | 119000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 134000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 110000 | 15.545 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 110 | AB | | 5.08 | ug/Kg |
| 000119-61-9 | Benzophenone | 130 | J | | 10.6 | ug/Kg |
| 1000411-48-9 | N-[(2-Phenyl-1,3-dioxolan-2-yl)met | 86.0 | J | | 13.9 | ug/Kg |
| 000192-97-2 | Benzo[e]pyrene | 77.3 | J | | 15.4 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 91.6 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143045.D | 1 | 07/07/25 09:00 | 07/08/25 21:12 | PB168737 |

| 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

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# Surrogate Summary

**SW-846**

**SDG No.:** Q2514

**Client:** CDM Smith

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| PB168737BL | PB168737BL | 2-Fluorophenol | 150 | 127 | 85 | | 18 | 112 |
| | | Phenol-d6 | 150 | 128 | 85 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 80.2 | 80 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 79.5 | 80 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 132 | 88 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 86.6 | 87 | | 10 | 105 |
| PB168737BS | PB168737BS | 2-Fluorophenol | 150 | 128 | 86 | | 18 | 112 |
| | | Phenol-d6 | 150 | 129 | 86 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 80.5 | 80 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 80.5 | 81 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 139 | 92 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 84.1 | 84 | | 10 | 105 |
| Q2514-01 | TP-92 | 2-Fluorophenol | 150 | 81.5 | 54 | | 18 | 112 |
| | | Phenol-d6 | 150 | 81.9 | 55 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 50.8 | 51 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 48.3 | 48 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 59.1 | 39 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 37.4 | 37 | | 10 | 105 |
| Q2514-02 | TP-93 | 2-Fluorophenol | 150 | 62.0 | 41 | | 18 | 112 |
| | | Phenol-d6 | 150 | 57.7 | 38 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 41.0 | 41 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 41.4 | 41 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 60.4 | 40 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 28.0 | 28 | | 10 | 105 |
| Q2514-03 | TP-94 | 2-Fluorophenol | 150 | 80.1 | 53 | | 18 | 112 |
| | | Phenol-d6 | 150 | 80.7 | 54 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 51.9 | 52 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 55.1 | 55 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 56.5 | 38 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 37.5 | 37 | | 10 | 105 |
| Q2514-04 | TP-96 | 2-Fluorophenol | 150 | 62.3 | 42 | | 18 | 112 |
| | | Phenol-d6 | 150 | 61.0 | 41 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 40.3 | 40 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 42.7 | 43 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 55.0 | 37 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 26.4 | 26 | | 10 | 105 |
| Q2514-05 | TP-97 | 2-Fluorophenol | 150 | 74.0 | 49 | | 18 | 112 |
| | | Phenol-d6 | 150 | 75.6 | 50 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 46.2 | 46 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 44.0 | 44 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 55.6 | 37 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 38.4 | 38 | | 10 | 105 |
| Q2514-06 | TP-103 | 2-Fluorophenol | 150 | 66.8 | 45 | | 18 | 112 |
| | | Phenol-d6 | 150 | 67.4 | 45 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 44.0 | 44 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 46.5 | 46 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 47.8 | 32 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 28.7 | 29 | | 10 | 105 |
| Q2514-07 | TP-36 | 2-Fluorophenol | 150 | 78.2 | 52 | | 18 | 112 |
| | | Phenol-d6 | 150 | 79.8 | 53 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 50.7 | 51 | | 18 | 107 |

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# Surrogate Summary

**SW-846**

**SDG No.:** Q2514

**Client:** CDM Smith

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| Q2514-07 | TP-36 | 2-Fluorobiphenyl | 100 | 52.4 | 52 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 56.2 | 37 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 40.6 | 41 | | 10 | 105 |
| Q2514-08 | TP-78 | 2-Fluorophenol | 150 | 93.0 | 62 | | 18 | 112 |
| | | Phenol-d6 | 150 | 95.8 | 64 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 61.0 | 61 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 60.2 | 60 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 67.5 | 45 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 46.7 | 47 | | 10 | 105 |
| Q2514-08MS | TP-78MS | 2-Fluorophenol | 150 | 76.1 | 51 | | 18 | 112 |
| | | Phenol-d6 | 150 | 76.2 | 51 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 48.0 | 48 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 48.6 | 49 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 68.0 | 45 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 35.9 | 36 | | 10 | 105 |
| Q2514-08MSD | TP-78MSD | 2-Fluorophenol | 150 | 71.8 | 48 | | 18 | 112 |
| | | Phenol-d6 | 150 | 70.7 | 47 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 45.9 | 46 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 45.7 | 46 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 64.2 | 43 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 34.1 | 34 | | 10 | 105 |
| Q2514-09 | TP-81 | 2-Fluorophenol | 150 | 78.9 | 53 | | 18 | 112 |
| | | Phenol-d6 | 150 | 79.4 | 53 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 51.3 | 51 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 51.6 | 52 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 52.1 | 35 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 35.4 | 35 | | 10 | 105 |
| Q2514-10 | TP-90 | 2-Fluorophenol | 150 | 48.7 | 32 | | 18 | 112 |
| | | Phenol-d6 | 150 | 47.1 | 31 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 34.4 | 34 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 38.3 | 38 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 41.7 | 28 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 23.7 | 24 | | 10 | 105 |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q2514 **Analytical Method:** SW8270E

**Client:** CDM Smith **DataFile:** BF143032.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q2514-08MS** | | **Client Sample ID: TP-78MS** | | | | | | | | | |
| Benzaldehyde | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 10 | 171 | |
| Phenol | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 51 | 122 | |
| bis(2-Chloroethyl)ether | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 54 | 125 | |
| 2-Chlorophenol | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 51 | 121 | |
| 2-Methylphenol | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 47 | 125 | |
| 2,2-oxybis(1-Chloropropane) | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 46 | 119 | |
| Acetophenone | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 55 | 128 | |
| 3+4-Methylphenols | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 49 | 125 | |
| N-Nitroso-di-n-propylamine | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 59 | 119 | |
| Hexachloroethane | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 51 | 116 | |
| Nitrobenzene | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 47 | 124 | |
| Isophorone | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 49 | 127 | |
| 2-Nitrophenol | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 43 | 131 | |
| 2,4-Dimethylphenol | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 63 | 151 | |
| bis(2-Chloroethoxy)methane | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 51 | 119 | |
| 2,4-Dichlorophenol | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 50 | 122 | |
| Naphthalene | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 51 | 121 | |
| 4-Chloroaniline | 1900 | 0 | 1300 | ug/Kg | 68 | | | | 10 | 100 | |
| Hexachlorobutadiene | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 44 | 126 | |
| Caprolactam | 1900 | 0 | 1400 | ug/Kg | 74 | | | | 51 | 134 | |
| 4-Chloro-3-methylphenol | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 57 | 132 | |
| 2-Methylnaphthalene | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 59 | 123 | |
| Hexachlorocyclopentadiene | 3900 | 0 | 3000 | ug/Kg | 77 | | | | 10 | 175 | |
| 2,4,6-Trichlorophenol | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 33 | 141 | |
| 2,4,5-Trichlorophenol | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 38 | 135 | |
| 1,1-Biphenyl | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 55 | 131 | |
| 2-Chloronaphthalene | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 48 | 124 | |
| 2-Nitroaniline | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 47 | 134 | |
| Dimethylphthalate | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 54 | 120 | |
| Acenaphthylene | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 57 | 125 | |
| 2,6-Dinitrotoluene | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 48 | 127 | |
| 3-Nitroaniline | 1900 | 0 | 1400 | ug/Kg | 74 | | | | 10 | 112 | |
| Acenaphthene | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 70 | 121 | |
| 2,4-Dinitrophenol | 3900 | 0 | 1600 | ug/Kg | 41 | | | | 10 | 155 | |
| 4-Nitrophenol | 3900 | 0 | 2400 | ug/Kg | 62 | | | | 10 | 175 | |
| Dibenzofuran | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 52 | 114 | |
| 2,4-Dinitrotoluene | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 41 | 140 | |
| Diethylphthalate | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 51 | 119 | |
| 4-Chlorophenyl-phenylether | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 48 | 122 | |
| Fluorene | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 53 | 118 | |
| 4-Nitroaniline | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 29 | 140 | |
| 4,6-Dinitro-2-methylphenol | 1900 | 0 | 1400 | ug/Kg | 74 | | | | 10 | 160 | |
| N-Nitrosodiphenylamine | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 73 | 118 | |
| 4-Bromophenyl-phenylether | 1900 | 0 | 2000 | ug/Kg | 105 | | | | 65 | 121 | |
| Hexachlorobenzene | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 67 | 118 | |
| Atrazine | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 45 | 175 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** SW8270E

**Client:** CDM Smith **DataFile:** BF143032.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 3900 | 0 | 2100 | ug/Kg | 54 | | | | 13 | 153 | |
| Phenanthrene | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 52 | 128 | |
| Anthracene | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 62 | 124 | |
| Carbazole | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 59 | 119 | |
| Di-n-butylphthalate | 1900 | 0 | 2000 | ug/Kg | 105 | | | | 55 | 125 | |
| Fluoranthene | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 44 | 125 | |
| Pyrene | 1900 | 0 | 1300 | ug/Kg | 68 | | | | 37 | 122 | |
| Butylbenzylphthalate | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 44 | 135 | |
| 3,3-Dichlorobenzidine | 1900 | 0 | 1400 | ug/Kg | 74 | | | | 15 | 112 | |
| Benzo(a)anthracene | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 53 | 119 | |
| Chrysene | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 57 | 121 | |
| bis(2-Ethylhexyl)phthalate | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 42 | 169 | |
| Di-n-octyl phthalate | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 51 | 156 | |
| Benzo(b)fluoranthene | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 52 | 117 | |
| Benzo(k)fluoranthene | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 57 | 134 | |
| Benzo(a)pyrene | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 70 | 142 | |
| Indeno(1,2,3-cd)pyrene | 1900 | 0 | 1500 | ug/Kg | 79 | | | | 40 | 129 | |
| Dibenz(a,h)anthracene | 1900 | 0 | 1500 | ug/Kg | 79 | | | | 43 | 123 | |
| Benzo(g,h,i)perylene | 1900 | 0 | 1400 | ug/Kg | 74 | | | | 24 | 125 | |
| 1,2,4,5-Tetrachlorobenzene | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 52 | 134 | |
| 1,4-Dioxane | 1900 | 0 | 1400 | ug/Kg | 74 | | | | 46 | 112 | |
| 2,3,4,6-Tetrachlorophenol | 1900 | 0 | 1400 | ug/Kg | 74 | | | | 24 | 146 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q2514 **Analytical Method:** SW8270E

**Client:** CDM Smith **DataFile:** BF143033.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q2514-08MSD** | | **Client Sample ID: TP-78MSD** | | | | | | | | | |
| Benzaldehyde | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 10 | 171 | 20 |
| Phenol | 1900 | 0 | 1600 | ug/Kg | 84 | | 6 | | 51 | 122 | 20 |
| bis(2-Chloroethyl)ether | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 54 | 125 | 20 |
| 2-Chlorophenol | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 51 | 121 | 20 |
| 2-Methylphenol | 1900 | 0 | 1600 | ug/Kg | 84 | | 12 | | 47 | 125 | 20 |
| 2,2-oxybis(1-Chloropropane) | 1900 | 0 | 1500 | ug/Kg | 79 | | 6 | | 46 | 119 | 20 |
| Acetophenone | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 55 | 128 | 20 |
| 3+4-Methylphenols | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 49 | 125 | 20 |
| N-Nitroso-di-n-propylamine | 1900 | 0 | 1600 | ug/Kg | 84 | | 12 | | 59 | 119 | 20 |
| Hexachloroethane | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 51 | 116 | 20 |
| Nitrobenzene | 1900 | 0 | 1600 | ug/Kg | 84 | | 6 | | 47 | 124 | 20 |
| Isophorone | 1900 | 0 | 1600 | ug/Kg | 84 | | 6 | | 49 | 127 | 20 |
| 2-Nitrophenol | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 43 | 131 | 20 |
| 2,4-Dimethylphenol | 1900 | 0 | 1600 | ug/Kg | 84 | | 6 | | 63 | 151 | 20 |
| bis(2-Chloroethoxy)methane | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 51 | 119 | 20 |
| 2,4-Dichlorophenol | 1900 | 0 | 1600 | ug/Kg | 84 | | 12 | | 50 | 122 | 20 |
| Naphthalene | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 51 | 121 | 20 |
| 4-Chloroaniline | 1900 | 0 | 1200 | ug/Kg | 63 | | 8 | | 10 | 100 | 20 |
| Hexachlorobutadiene | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 44 | 126 | 20 |
| Caprolactam | 1900 | 0 | 1300 | ug/Kg | 68 | | 8 | | 51 | 134 | 20 |
| 4-Chloro-3-methylphenol | 1900 | 0 | 1600 | ug/Kg | 84 | | 6 | | 57 | 132 | 20 |
| 2-Methylnaphthalene | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 59 | 123 | 20 |
| Hexachlorocyclopentadiene | 3900 | 0 | 2800 | ug/Kg | 72 | | 7 | | 10 | 175 | 20 |
| 2,4,6-Trichlorophenol | 1900 | 0 | 1600 | ug/Kg | 84 | | 6 | | 33 | 141 | 20 |
| 2,4,5-Trichlorophenol | 1900 | 0 | 1600 | ug/Kg | 84 | | 6 | | 38 | 135 | 20 |
| 1,1-Biphenyl | 1900 | 0 | 1700 | ug/Kg | 89 | | 12 | | 55 | 131 | 20 |
| 2-Chloronaphthalene | 1900 | 0 | 1700 | ug/Kg | 89 | | 12 | | 48 | 124 | 20 |
| 2-Nitroaniline | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 47 | 134 | 20 |
| Dimethylphthalate | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 54 | 120 | 20 |
| Acenaphthylene | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 57 | 125 | 20 |
| 2,6-Dinitrotoluene | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 48 | 127 | 20 |
| 3-Nitroaniline | 1900 | 0 | 1300 | ug/Kg | 68 | | 8 | | 10 | 112 | 20 |
| Acenaphthene | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 70 | 121 | 20 |
| 2,4-Dinitrophenol | 3900 | 0 | 1500 | ug/Kg | 38 | | 8 | | 10 | 155 | 20 |
| 4-Nitrophenol | 3900 | 0 | 2300 | ug/Kg | 59 | | 5 | | 10 | 175 | 20 |
| Dibenzofuran | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 52 | 114 | 20 |
| 2,4-Dinitrotoluene | 1900 | 0 | 1600 | ug/Kg | 84 | | 12 | | 41 | 140 | 20 |
| Diethylphthalate | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 51 | 119 | 20 |
| 4-Chlorophenyl-phenylether | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 48 | 122 | 20 |
| Fluorene | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 53 | 118 | 20 |
| 4-Nitroaniline | 1900 | 0 | 1600 | ug/Kg | 84 | | 6 | | 29 | 140 | 20 |
| 4,6-Dinitro-2-methylphenol | 1900 | 0 | 1300 | ug/Kg | 68 | | 8 | | 10 | 160 | 20 |
| N-Nitrosodiphenylamine | 1900 | 0 | 1800 | ug/Kg | 95 | | 5 | | 73 | 118 | 20 |
| 4-Bromophenyl-phenylether | 1900 | 0 | 1800 | ug/Kg | 95 | | 10 | | 65 | 121 | 20 |
| Hexachlorobenzene | 1900 | 0 | 1800 | ug/Kg | 95 | | 5 | | 67 | 118 | 20 |
| Atrazine | 1900 | 0 | 1800 | ug/Kg | 95 | | 5 | | 45 | 175 | 20 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** SW8270E

**Client:** CDM Smith **DataFile:** BF143033.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 3900 | 0 | 1900 | ug/Kg | 49 | | 10 | | 13 | 153 | 20 |
| Phenanthrene | 1900 | 0 | 1700 | ug/Kg | 89 | | 12 | | 52 | 128 | 20 |
| Anthracene | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 62 | 124 | 20 |
| Carbazole | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 59 | 119 | 20 |
| Di-n-butylphthalate | 1900 | 0 | 1900 | ug/Kg | 100 | | 5 | | 55 | 125 | 20 |
| Fluoranthene | 1900 | 0 | 1600 | ug/Kg | 84 | | 6 | | 44 | 125 | 20 |
| Pyrene | 1900 | 0 | 1300 | ug/Kg | 68 | | 0 | | 37 | 122 | 20 |
| Butylbenzylphthalate | 1900 | 0 | 1800 | ug/Kg | 95 | | 5 | | 44 | 135 | 20 |
| 3,3-Dichlorobenzidine | 1900 | 0 | 1400 | ug/Kg | 74 | | 0 | | 15 | 112 | 20 |
| Benzo(a)anthracene | 1900 | 0 | 1700 | ug/Kg | 89 | | 7 | | 53 | 119 | 20 |
| Chrysene | 1900 | 0 | 1800 | ug/Kg | 95 | | 5 | | 57 | 121 | 20 |
| bis(2-Ethylhexyl)phthalate | 1900 | 0 | 1800 | ug/Kg | 95 | | 5 | | 42 | 169 | 20 |
| Di-n-octyl phthalate | 1900 | 0 | 1800 | ug/Kg | 95 | | 5 | | 51 | 156 | 20 |
| Benzo(b)fluoranthene | 1900 | 0 | 1900 | ug/Kg | 100 | | 0 | | 52 | 117 | 20 |
| Benzo(k)fluoranthene | 1900 | 0 | 1800 | ug/Kg | 95 | | 5 | | 57 | 134 | 20 |
| Benzo(a)pyrene | 1900 | 0 | 1800 | ug/Kg | 95 | | 5 | | 70 | 142 | 20 |
| Indeno(1,2,3-cd)pyrene | 1900 | 0 | 1400 | ug/Kg | 74 | | 7 | | 40 | 129 | 20 |
| Dibenz(a,h)anthracene | 1900 | 0 | 1400 | ug/Kg | 74 | | 7 | | 43 | 123 | 20 |
| Benzo(g,h,i)perylene | 1900 | 0 | 1300 | ug/Kg | 68 | | 8 | | 24 | 125 | 20 |
| 1,2,4,5-Tetrachlorobenzene | 1900 | 0 | 1800 | ug/Kg | 95 | | 5 | | 52 | 134 | 20 |
| 1,4-Dioxane | 1900 | 0 | 1300 | ug/Kg | 68 | | 8 | | 46 | 112 | 20 |
| 2,3,4,6-Tetrachlorophenol | 1900 | 0 | 1300 | ug/Kg | 68 | | 8 | | 24 | 146 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** 8270E

**Client:** CDM Smith **DataFile:** BF143050.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168737BS | Benzaldehyde | 1700 | 1500 | ug/Kg | 88 | | | | 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 | 1500 | ug/Kg | 88 | | | | 61 | 108 | |
| | 2,2-oxybis(1-Chloropropane) | 1700 | 1300 | ug/Kg | 76 | | | | 51 | 100 | |
| | Acetophenone | 1700 | 1500 | ug/Kg | 88 | | | | 66 | 98 | |
| | 3+4-Methylphenols | 1700 | 1500 | ug/Kg | 88 | | | | 58 | 111 | |
| | N-Nitroso-di-n-propylamine | 1700 | 1500 | ug/Kg | 88 | | | | 63 | 95 | |
| | Hexachloroethane | 1700 | 1500 | ug/Kg | 88 | | | | 72 | 108 | |
| | Nitrobenzene | 1700 | 1400 | ug/Kg | 82 | | | | 57 | 101 | |
| | Isophorone | 1700 | 1500 | ug/Kg | 88 | | | | 59 | 99 | |
| | 2-Nitrophenol | 1700 | 1500 | ug/Kg | 88 | | | | 61 | 111 | |
| | 2,4-Dimethylphenol | 1700 | 1500 | ug/Kg | 88 | | | | 46 | 141 | |
| | bis(2-Chloroethoxy)methane | 1700 | 1500 | ug/Kg | 88 | | | | 66 | 97 | |
| | 2,4-Dichlorophenol | 1700 | 1500 | ug/Kg | 88 | | | | 62 | 107 | |
| | Naphthalene | 1700 | 1500 | ug/Kg | 88 | | | | 62 | 100 | |
| | 4-Chloroaniline | 1700 | 870 | ug/Kg | 51 | | | | 16 | 100 | |
| | Hexachlorobutadiene | 1700 | 1500 | ug/Kg | 88 | | | | 53 | 98 | |
| | Caprolactam | 1700 | 1600 | ug/Kg | 94 | | | | 67 | 110 | |
| | 4-Chloro-3-methylphenol | 1700 | 1500 | ug/Kg | 88 | | | | 58 | 112 | |
| | 2-Methylnaphthalene | 1700 | 1500 | ug/Kg | 88 | | | | 60 | 104 | |
| | Hexachlorocyclopentadiene | 3300 | 2500 | ug/Kg | 76 | | | | 45 | 165 | |
| | 2,4,6-Trichlorophenol | 1700 | 1400 | ug/Kg | 82 | | | | 59 | 102 | |
| | 2,4,5-Trichlorophenol | 1700 | 1400 | ug/Kg | 82 | | | | 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 | 1600 | ug/Kg | 94 | | | | 61 | 99 | |
| | Acenaphthylene | 1700 | 1500 | ug/Kg | 88 | | | | 63 | 101 | |
| | 2,6-Dinitrotoluene | 1700 | 1600 | ug/Kg | 94 | | | | 61 | 104 | |
| | 3-Nitroaniline | 1700 | 1000 | ug/Kg | 59 | | | | 28 | 100 | |
| | Acenaphthene | 1700 | 1600 | ug/Kg | 94 | | | | 57 | 104 | |
| | 2,4-Dinitrophenol | 3300 | 3000 | ug/Kg | 91 | | | | 37 | 128 | |
| | 4-Nitrophenol | 3300 | 2400 | ug/Kg | 73 | | | | 48 | 119 | |
| | Dibenzofuran | 1700 | 1500 | ug/Kg | 88 | | | | 63 | 99 | |
| | 2,4-Dinitrotoluene | 1700 | 1600 | ug/Kg | 94 | | | | 60 | 106 | |
| | Diethylphthalate | 1700 | 1600 | ug/Kg | 94 | | | | 60 | 101 | |
| | 4-Chlorophenyl-phenylether | 1700 | 1500 | ug/Kg | 88 | | | | 58 | 98 | |
| | Fluorene | 1700 | 1500 | ug/Kg | 88 | | | | 61 | 101 | |
| | 4-Nitroaniline | 1700 | 1500 | ug/Kg | 88 | | | | 64 | 103 | |
| | 4,6-Dinitro-2-methylphenol | 1700 | 1500 | ug/Kg | 88 | | | | 76 | 113 | |
| | N-Nitrosodiphenylamine | 1700 | 1500 | ug/Kg | 88 | | | | 71 | 99 | |
| | 4-Bromophenyl-phenylether | 1700 | 1500 | ug/Kg | 88 | | | | 66 | 102 | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** 8270E

**Client:** CDM Smith **DataFile:** BF143050.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168737BS | Hexachlorobenzene | 1700 | 1500 | ug/Kg | 88 | | | | 64 | 98 | |
| | Atrazine | 1700 | 1700 | ug/Kg | 100 | | | | 47 | 152 | |
| | Pentachlorophenol | 3300 | 2400 | ug/Kg | 73 | | | | 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 | 1600 | ug/Kg | 94 | | | | 58 | 104 | |
| | Fluoranthene | 1700 | 1500 | ug/Kg | 88 | | | | 57 | 107 | |
| | Pyrene | 1700 | 1500 | ug/Kg | 88 | | | | 59 | 103 | |
| | Butylbenzylphthalate | 1700 | 1600 | ug/Kg | 94 | | | | 55 | 103 | |
| | 3,3-Dichlorobenzidine | 1700 | 830 | ug/Kg | 49 | | | | 42 | 91 | |
| | Benzo(a)anthracene | 1700 | 1500 | ug/Kg | 88 | | | | 60 | 102 | |
| | Chrysene | 1700 | 1500 | ug/Kg | 88 | | | | 59 | 101 | |
| | bis(2-Ethylhexyl)phthalate | 1700 | 1600 | ug/Kg | 94 | | | | 54 | 135 | |
| | Di-n-octyl phthalate | 1700 | 1600 | ug/Kg | 94 | | | | 52 | 137 | |
| | Benzo(b)fluoranthene | 1700 | 1400 | ug/Kg | 82 | | | | 62 | 109 | |
| | Benzo(k)fluoranthene | 1700 | 1600 | ug/Kg | 94 | | | | 62 | 109 | |
| | Benzo(a)pyrene | 1700 | 1500 | ug/Kg | 88 | | | | 63 | 103 | |
| | Indeno(1,2,3-cd)pyrene | 1700 | 1400 | ug/Kg | 82 | | | | 63 | 101 | |
| | Dibenz(a,h)anthracene | 1700 | 1400 | ug/Kg | 82 | | | | 61 | 112 | |
| | Benzo(g,h,i)perylene | 1700 | 1400 | ug/Kg | 82 | | | | 70 | 108 | |
| | 1,2,4,5-Tetrachlorobenzene | 1700 | 1500 | ug/Kg | 88 | | | | 53 | 101 | |
| | 1,4-Dioxane | 1700 | 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

Client ID: PB168737BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2514

Lab File ID: BF143049.D | Lab Sample ID: PB168737BL

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

Matrix: (soil/water) SOIL | Date Analyzed: 07/09/2025

Level: (low/med) LOW | Time Analyzed: 11:23

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB168737BS | PB168737BS | BF143050.D | 07/09/2025 |
| TP-93 | Q2514-02 | BF143015.D | 07/07/2025 |
| TP-92 | Q2514-01 | BF143037.D | 07/08/2025 |
| TP-94 | Q2514-03 | BF143036.D | 07/08/2025 |
| TP-97 | Q2514-05 | BF143038.D | 07/08/2025 |
| TP-103 | Q2514-06 | BF143044.D | 07/08/2025 |
| TP-96 | Q2514-04 | BF143046.D | 07/08/2025 |
| TP-36 | Q2514-07 | BF143030.D | 07/08/2025 |
| TP-78 | Q2514-08 | BF143031.D | 07/08/2025 |
| TP-78MS | Q2514-08MS | BF143032.D | 07/08/2025 |
| TP-78MSD | Q2514-08MSD | BF143033.D | 07/08/2025 |
| TP-81 | Q2514-09 | BF143035.D | 07/08/2025 |
| TP-90 | Q2514-10 | BF143045.D | 07/08/2025 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

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

Instrument ID: BNA_F DFTPP Injection Time: 16:37

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 33.9 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 30.9 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 41.6 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 5.8 |
| 275 | 10.0 - 60.0% of mass 198 | 24.9 |
| 365 | Greater than 1% of mass 198 | 3.3 |
| 441 | Present, but less than mass 443 | 15 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.1 (19.1) 2 |

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

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

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

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

Lab File ID: BF143002.D DFTPP Injection Date: 07/07/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:12

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 32.2 |
| 68 | Less than 2.0% of mass 69 | 0.0 ( 0.0 ) 1 |
| 69 | Mass 69 relative abundance | 29.4 |
| 70 | Less than 2.0% of mass 69 | 0.0 ( 0.0 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 42.4 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6 |
| 275 | 10.0 - 60.0% of mass 198 | 25.1 |
| 365 | Greater than 1% of mass 198 | 3.4 |
| 441 | Present, but less than mass 443 | 15.5 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19 ( 19 ) 2 |

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

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF143003.D | 07/07/2025 | 12:12 |
| TP-93 | Q2514-02 | BF143015.D | 07/07/2025 | 18:21 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

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

Instrument ID: BNA_F DFTPP Injection Time: 10:24

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 34.6 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 2 ) 1 |
| 69 | Mass 69 relative abundance | 32.1 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 44.5 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6 |
| 275 | 10.0 - 60.0% of mass 198 | 25.6 |
| 365 | Greater than 1% of mass 198 | 3.3 |
| 441 | Present, but less than mass 443 | 15.7 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 18.8 (18.8) 2 |

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

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF143025.D | 07/08/2025 | 10:54 |
| TP-36 | Q2514-07 | BF143030.D | 07/08/2025 | 13:31 |
| TP-78 | Q2514-08 | BF143031.D | 07/08/2025 | 14:02 |
| TP-78MS | Q2514-08MS | BF143032.D | 07/08/2025 | 14:32 |
| TP-78MSD | Q2514-08MSD | BF143033.D | 07/08/2025 | 15:03 |
| TP-81 | Q2514-09 | BF143035.D | 07/08/2025 | 16:05 |
| TP-94 | Q2514-03 | BF143036.D | 07/08/2025 | 16:36 |
| TP-92 | Q2514-01 | BF143037.D | 07/08/2025 | 17:07 |
| TP-97 | Q2514-05 | BF143038.D | 07/08/2025 | 17:37 |
| TP-103 | Q2514-06 | BF143044.D | 07/08/2025 | 20:42 |
| TP-90 | Q2514-10 | BF143045.D | 07/08/2025 | 21:12 |
| TP-96 | Q2514-04 | BF143046.D | 07/08/2025 | 21:42 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

Lab File ID: BF143047.D DFTPP Injection Date: 07/09/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:22

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 33.7 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 30.9 |
| 70 | Less than 2.0% of mass 69 | 0.0 ( 0.0 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 43.5 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 5.8 |
| 275 | 10.0 - 60.0% of mass 198 | 26 |
| 365 | Greater than 1% of mass 198 | 3.3 |
| 441 | Present, but less than mass 443 | 15.1 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.2 (19.2) 2 |

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

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF143048.D | 07/09/2025 | 10:52 |
| PB168737BL | PB168737BL | BF143049.D | 07/09/2025 | 11:23 |
| PB168737BS | PB168737BS | BF143050.D | 07/09/2025 | 11:54 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2514

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

Lab File ID: BF143003.D Time Analyzed: 12:12

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 | 66299 | 6.875 | 250576 | 8.16 | 128386 | 9.92 |
| | UPPER LIMIT | 132598 | 7.375 | 501152 | 8.663 | 256772 | 10.422 |
| | LOWER LIMIT | 33149.5 | 6.375 | 125288 | 7.663 | 64193 | 9.422 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TP-93 | 51019 | 6.88 | 169189 | 8.16 | 78799 | 9.92 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2514

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

Lab File ID: BF143003.D Time Analyzed: 12:12

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 | 196682 | 11.41 | 115356 | 14.057 | 146144 | 15.551 |
| | UPPER LIMIT | 393364 | 11.91 | 230712 | 14.557 | 292288 | 16.051 |
| | LOWER LIMIT | 98341 | 10.91 | 57678 | 13.557 | 73072 | 15.051 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TP-93 | 137500 | 11.40 | 140379 | 14.05 | 106598 | 15.55 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2514

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

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

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 66813 | 6.875 | 257725 | 8.16 | 136330 | 9.92 |
| | UPPER LIMIT | 133626 | 7.375 | 515450 | 8.663 | 272660 | 10.422 |
| | LOWER LIMIT | 33406.5 | 6.375 | 128863 | 7.663 | 68165 | 9.422 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TP-92 | 52203 | 6.87 | 200559 | 8.16 | 103832 | 9.92 |
| 02 | TP-94 | 53325 | 6.87 | 200031 | 8.16 | 97923 | 9.92 |
| 03 | TP-96 | 51513 | 6.87 | 178914 | 8.16 | 77176 | 9.92 |
| 04 | TP-97 | 53517 | 6.87 | 204226 | 8.16 | 107967 | 9.92 |
| 05 | TP-103 | 56443 | 6.87 | 202963 | 8.16 | 92048 | 9.91 |
| 06 | TP-36 | 51623 | 6.88 | 191789 | 8.16 | 97372 | 9.92 |
| 07 | TP-78 | 50576 | 6.88 | 192739 | 8.16 | 95941 | 9.92 |
| 08 | TP-78MS | 50264 | 6.88 | 189189 | 8.16 | 92887 | 9.92 |
| 09 | TP-78MSD | 51205 | 6.88 | 192135 | 8.16 | 95468 | 9.92 |
| 10 | TP-81 | 49332 | 6.87 | 187293 | 8.16 | 91194 | 9.92 |
| 11 | TP-90 | 51734 | 6.87 | 174400 | 8.16 | 74685 | 9.91 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2514

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

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

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 218169 | 11.41 | 109391 | 14.063 | 135350 | 15.557 |
| | UPPER LIMIT | 436338 | 11.91 | 218782 | 14.563 | 270700 | 16.057 |
| | LOWER LIMIT | 109085 | 10.91 | 54695.5 | 13.563 | 67675 | 15.057 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | TP-92 | 167385 | 11.40 | 99277 | 14.05 | 124285 | 15.55 |
| 02 | TP-94 | 139376 | 11.40 | 103985 | 14.05 | 130813 | 15.55 |
| 03 | TP-96 | 119858 | 11.40 | 136149 | 14.05 | 112713 | 15.55 |
| 04 | TP-97 | 176632 | 11.40 | 101816 | 14.05 | 128852 | 15.55 |
| 05 | TP-103 | 127469 | 11.40 | 129693 | 14.05 | 142779 | 15.55 |
| 06 | TP-36 | 145951 | 11.40 | 94013 | 14.06 | 119996 | 15.55 |
| 07 | TP-78 | 147510 | 11.40 | 94443 | 14.06 | 118368 | 15.55 |
| 08 | TP-78MS | 136328 | 11.40 | 97647 | 14.06 | 121597 | 15.55 |
| 09 | TP-78MSD | 140156 | 11.41 | 99167 | 14.06 | 122553 | 15.55 |
| 10 | TP-81 | 135239 | 11.40 | 94806 | 14.05 | 119948 | 15.55 |
| 11 | TP-90 | 119276 | 11.40 | 133812 | 14.05 | 110430 | 15.55 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2514

Client ID : SSTDCCC040 Date Analyzed: 07/09/2025

Lab File ID: BF143048.D Time Analyzed: 10:52

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 66592 | 6.875 | 257344 | 8.16 | 135062 | 9.92 |
| | UPPER LIMIT | 133184 | 7.375 | 514688 | 8.657 | 270124 | 10.416 |
| | LOWER LIMIT | 33296 | 6.375 | 128672 | 7.657 | 67531 | 9.416 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168737BL | 57363 | 6.87 | 220874 | 8.16 | 118712 | 9.92 |
| 02 | PB168737BS | 58302 | 6.88 | 228077 | 8.16 | 121529 | 9.92 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2514

Client ID: SSTDCCC040 Date Analyzed: 07/09/2025

Lab File ID: BF143048.D Time Analyzed: 10:52

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 218580 | 11.41 | 110392 | 14.057 | 146270 | 15.545 |
| | UPPER LIMIT | 437160 | 11.91 | 220784 | 14.557 | 292540 | 16.045 |
| | LOWER LIMIT | 109290 | 10.91 | 55196 | 13.557 | 73135 | 15.045 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB168737BL | 203771 | 11.40 | 110413 | 14.05 | 115591 | 15.55 |
| 02 | PB168737BS | 206226 | 11.40 | 108155 | 14.06 | 126456 | 15.55 |

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

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

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

# 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: | PB168737BL | SDG No.: | Q2514 |
| Lab Sample ID: | PB168737BL | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143049.D | 1 | 07/07/25 09:00 | 07/09/25 11:23 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 160 | U | 160 | 330 | ug/Kg |
| 108-95-2 | Phenol | 22.1 | U | 22.1 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 24.3 | U | 24.3 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 24.4 | U | 24.4 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 29.9 | U | 29.9 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 37.5 | U | 37.5 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 29.5 | U | 29.5 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 41.1 | U | 41.1 | 330 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 47.4 | U | 47.4 | 79.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 17.6 | U | 17.6 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 18.3 | U | 18.3 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 32.8 | U | 32.8 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 58.2 | U | 58.2 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 64.8 | U | 64.8 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 30.8 | U | 30.8 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 28.3 | U | 28.3 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 22.7 | U | 22.7 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 35.4 | U | 35.4 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 25.3 | U | 25.3 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 52.1 | U | 52.1 | 330 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 28.7 | U | 28.7 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 25.6 | U | 25.6 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 120 | U | 120 | 330 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 19.8 | U | 19.8 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 29.1 | U | 29.1 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 21.8 | U | 21.8 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 22.5 | U | 22.5 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 48.1 | U | 48.1 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 27.1 | U | 27.1 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | PB168737BL | SDG No.: | Q2514 |
| Lab Sample ID: | PB168737BL | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143049.D | 1 | 07/07/25 09:00 | 07/09/25 11:23 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 28.9 | U | 28.9 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 33.6 | U | 33.6 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 46.0 | U | 46.0 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 21.3 | U | 21.3 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 230 | U | 230 | 330 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 110 | U | 110 | 330 | ug/Kg |
| 132-64-9 | Dibenzofuran | 22.7 | U | 22.7 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 50.1 | U | 50.1 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 28.3 | U | 28.3 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 26.7 | U | 26.7 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 25.3 | U | 25.3 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 64.2 | U | 64.2 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 100 | U | 100 | 330 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 32.9 | U | 32.9 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 27.8 | U | 27.8 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 25.3 | U | 25.3 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 34.0 | U | 34.0 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 51.3 | U | 51.3 | 330 | ug/Kg |
| 85-01-8 | Phenanthrene | 20.9 | U | 20.9 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 33.3 | U | 33.3 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 31.2 | U | 31.2 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 47.9 | U | 47.9 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 30.0 | U | 30.0 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 36.0 | U | 36.0 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 71.4 | U | 71.4 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 36.7 | U | 36.7 | 330 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 23.0 | U | 23.0 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 19.9 | U | 19.9 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 59.2 | U | 59.2 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 86.7 | U | 86.7 | 330 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 19.0 | U | 19.0 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | PB168737BL | SDG No.: | Q2514 |
| Lab Sample ID: | PB168737BL | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143049.D | 1 | 07/07/25 09:00 | 07/09/25 11:23 | PB168737 |

| 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 | 127 | | 18 - 112 | 85% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 128 | | 15 - 107 | 85% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 80.2 | | 18 - 107 | 80% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 79.5 | | 20 - 109 | 80% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 132 | | 10 - 116 | 88% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 86.6 | | 10 - 105 | 87% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 57400 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 221000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 119000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 204000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 110000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 116000 | 15.545 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 310 | A | | 5.10 | ug/Kg |
| 000630-04-6 | Hentriacontane | 150 | J | | 13.9 | ug/Kg |
| 006311-48-4 | (1,1-Biphenyl)-4,4-diamine, N,N | 600 | J | | 17.2 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | CDM Smith | | | Date Collected: | |
| Project: | South River WM Replacement | | | Date Received: | |
| Client Sample ID: | PB168737BL | | | SDG No.: | Q2514 |
| Lab Sample ID: | PB168737BL | | | Matrix: | SOIL |
| Analytical Method: | 8270E | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143049.D | 1 | 07/07/25 09:00 | 07/09/25 11:23 | PB168737 |

| 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

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: | PB168737BS | SDG No.: | Q2514 |
| Lab Sample ID: | PB168737BS | 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 |
|---|---|---|---|---|
| BF143050.D | 1 | 07/07/25 09:00 | 07/09/25 11:54 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 1500 | | 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 | 1500 | | 29.9 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1300 | | 37.5 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 1500 | | 29.5 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1500 | | 41.1 | 330 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1500 | | 47.4 | 80.0 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1500 | | 17.6 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1400 | | 18.3 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 1500 | | 32.8 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1500 | | 58.2 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1500 | | 64.8 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1500 | | 30.8 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1500 | | 28.3 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 1500 | | 22.7 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 870 | | 35.4 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1500 | | 25.3 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 1600 | | 52.1 | 330 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1500 | | 28.7 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1500 | | 25.6 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 2500 | | 120 | 330 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1400 | | 19.8 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1400 | | 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 | 1600 | | 27.1 | 170 | ug/Kg |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | PB168737BS | SDG No.: | Q2514 |
| Lab Sample ID: | PB168737BS | 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 |
|---|---|---|---|---|
| BF143050.D | 1 | 07/07/25 09:00 | 07/09/25 11:54 | PB168737 |

| 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 | 1600 | | 33.6 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 1000 | | 46.0 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 1600 | | 21.3 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 3000 | E | 230 | 330 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 2400 | | 110 | 330 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1500 | | 22.7 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1600 | | 50.1 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1600 | | 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 | 1500 | | 64.2 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1500 | | 100 | 330 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1500 | | 32.9 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1500 | | 27.8 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1500 | | 25.3 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 1700 | | 34.0 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 2400 | | 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 | 1600 | | 47.9 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 1500 | | 30.0 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 1500 | | 36.0 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1600 | | 71.4 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 830 | | 36.7 | 330 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1500 | | 23.0 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 1500 | | 19.9 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1600 | | 59.2 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1600 | | 86.8 | 330 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1400 | | 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: | PB168737BS | SDG No.: | Q2514 |
| Lab Sample ID: | PB168737BS | 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 |
|---|---|---|---|---|
| BF143050.D | 1 | 07/07/25 09:00 | 07/09/25 11:54 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1600 | | 22.4 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1500 | | 29.5 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1400 | | 29.1 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1400 | | 27.4 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1400 | | 25.7 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1500 | | 25.6 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 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 | 129 | | 15 - 107 | 86% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 80.5 | | 18 - 107 | 80% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 80.5 | | 20 - 109 | 81% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 139 | | 10 - 116 | 92% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 84.1 | | 10 - 105 | 84% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 58300 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 228000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 122000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 206000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 108000 | 14.057 | | | |
| 1520-96-3 | Perylene-d12 | 126000 | 15.545 | | | |

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78MS | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08MS | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| 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 |
|---|---|---|---|---|
| BF143032.D | 1 | 07/07/25 09:00 | 07/08/25 14:32 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 1800 | | 180 | 380 | ug/Kg |
| 108-95-2 | Phenol | 1700 | | 25.6 | 200 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1800 | | 28.1 | 200 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1800 | | 28.3 | 200 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1800 | | 34.6 | 200 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1600 | | 43.4 | 200 | ug/Kg |
| 98-86-2 | Acetophenone | 1800 | | 34.2 | 200 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1800 | | 47.6 | 380 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1800 | | 54.9 | 92.7 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1800 | | 20.4 | 200 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1700 | | 21.2 | 200 | ug/Kg |
| 78-59-1 | Isophorone | 1700 | | 38.0 | 200 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1800 | | 67.4 | 200 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1700 | | 75.1 | 200 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1800 | | 35.7 | 200 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1800 | | 32.8 | 200 | ug/Kg |
| 91-20-3 | Naphthalene | 1800 | | 26.3 | 200 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 1300 | | 41.0 | 200 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1800 | | 29.3 | 200 | ug/Kg |
| 105-60-2 | Caprolactam | 1400 | | 60.4 | 380 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1700 | | 33.2 | 200 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1800 | | 29.7 | 200 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 3000 | | 130 | 380 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1700 | | 22.9 | 200 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | | 33.7 | 200 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1900 | | 25.3 | 200 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1900 | | 26.1 | 200 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1800 | | 55.7 | 200 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1800 | | 31.4 | 200 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78MS | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08MS | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| 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 |
|---|---|---|---|---|
| BF143032.D | 1 | 07/07/25 09:00 | 07/08/25 14:32 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1800 | | 33.5 | 200 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1800 | | 38.9 | 200 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 1400 | | 53.3 | 200 | ug/Kg |
| 83-32-9 | Acenaphthene | 1800 | | 24.7 | 200 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 1600 | | 270 | 380 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 2400 | | 120 | 380 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1800 | | 26.3 | 200 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1800 | | 58.0 | 200 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1800 | | 32.8 | 200 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1800 | | 30.9 | 200 | ug/Kg |
| 86-73-7 | Fluorene | 1800 | | 29.3 | 200 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1700 | | 74.4 | 200 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1400 | | 120 | 380 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1900 | | 38.1 | 200 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 2000 | | 32.2 | 200 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1900 | | 29.3 | 200 | ug/Kg |
| 1912-24-9 | Atrazine | 1900 | | 39.4 | 200 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 2100 | | 59.4 | 380 | ug/Kg |
| 85-01-8 | Phenanthrene | 1900 | | 24.2 | 200 | ug/Kg |
| 120-12-7 | Anthracene | 1800 | | 38.6 | 200 | ug/Kg |
| 86-74-8 | Carbazole | 1800 | | 36.1 | 200 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 2000 | | 55.5 | 200 | ug/Kg |
| 206-44-0 | Fluoranthene | 1700 | | 34.8 | 200 | ug/Kg |
| 129-00-0 | Pyrene | 1300 | | 41.7 | 200 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1900 | | 82.7 | 200 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 1400 | | 42.5 | 380 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1800 | | 26.6 | 200 | ug/Kg |
| 218-01-9 | Chrysene | 1900 | | 23.1 | 200 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1900 | | 68.6 | 200 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1900 | | 100 | 380 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1900 | | 22.0 | 200 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78MS | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08MS | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| 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 |
|---|---|---|---|---|
| BF143032.D | 1 | 07/07/25 09:00 | 07/08/25 14:32 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1900 | | 25.9 | 200 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1900 | | 34.2 | 200 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1500 | | 33.7 | 200 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1500 | | 31.7 | 200 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1400 | | 29.8 | 200 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1900 | | 29.7 | 200 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1400 | | 52.4 | 200 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1400 | | 31.7 | 200 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 76.1 | | 18 - 112 | 51% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 76.2 | | 15 - 107 | 51% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 48.0 | | 18 - 107 | 48% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 48.6 | | 20 - 109 | 49% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 68.0 | | 10 - 116 | 45% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 35.9 | | 10 - 105 | 36% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 50300 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 189000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 92900 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 136000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 97600 | 14.057 | | | |
| 1520-96-3 | Perylene-d12 | 122000 | 15.551 | | | |

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

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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78MSD | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08MSD | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143033.D | 1 | 07/07/25 09:00 | 07/08/25 15:03 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 1700 | | 180 | 380 | ug/Kg |
| 108-95-2 | Phenol | 1600 | | 25.6 | 200 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1700 | | 28.1 | 200 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1700 | | 28.2 | 200 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1600 | | 34.6 | 200 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1500 | | 43.4 | 200 | ug/Kg |
| 98-86-2 | Acetophenone | 1700 | | 34.1 | 200 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1700 | | 47.5 | 380 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1600 | | 54.8 | 92.5 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1700 | | 20.4 | 200 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1600 | | 21.2 | 200 | ug/Kg |
| 78-59-1 | Isophorone | 1600 | | 37.9 | 200 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1700 | | 67.3 | 200 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1600 | | 75.0 | 200 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1700 | | 35.6 | 200 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1600 | | 32.7 | 200 | ug/Kg |
| 91-20-3 | Naphthalene | 1700 | | 26.3 | 200 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 1200 | | 41.0 | 200 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1700 | | 29.3 | 200 | ug/Kg |
| 105-60-2 | Caprolactam | 1300 | | 60.3 | 380 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1600 | | 33.2 | 200 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1700 | | 29.6 | 200 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 2800 | | 130 | 380 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1600 | | 22.9 | 200 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1600 | | 33.7 | 200 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1700 | | 25.2 | 200 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1700 | | 26.0 | 200 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1700 | | 55.6 | 200 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1700 | | 31.3 | 200 | ug/Kg |

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



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78MSD | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08MSD | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143033.D | 1 | 07/07/25 09:00 | 07/08/25 15:03 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1700 | | 33.4 | 200 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1700 | | 38.9 | 200 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 1300 | | 53.2 | 200 | ug/Kg |
| 83-32-9 | Acenaphthene | 1700 | | 24.6 | 200 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 1500 | | 260 | 380 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 2300 | | 120 | 380 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1700 | | 26.3 | 200 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1600 | | 58.0 | 200 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1700 | | 32.7 | 200 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1700 | | 30.9 | 200 | ug/Kg |
| 86-73-7 | Fluorene | 1700 | | 29.3 | 200 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1600 | | 74.3 | 200 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1300 | | 120 | 380 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1800 | | 38.1 | 200 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1800 | | 32.2 | 200 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1800 | | 29.3 | 200 | ug/Kg |
| 1912-24-9 | Atrazine | 1800 | | 39.3 | 200 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 1900 | | 59.3 | 380 | ug/Kg |
| 85-01-8 | Phenanthrene | 1700 | | 24.2 | 200 | ug/Kg |
| 120-12-7 | Anthracene | 1700 | | 38.5 | 200 | ug/Kg |
| 86-74-8 | Carbazole | 1700 | | 36.1 | 200 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1900 | | 55.4 | 200 | ug/Kg |
| 206-44-0 | Fluoranthene | 1600 | | 34.7 | 200 | ug/Kg |
| 129-00-0 | Pyrene | 1300 | | 41.6 | 200 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1800 | | 82.6 | 200 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 1400 | | 42.5 | 380 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1700 | | 26.6 | 200 | ug/Kg |
| 218-01-9 | Chrysene | 1800 | | 23.0 | 200 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1800 | | 68.5 | 200 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1800 | | 100 | 380 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1900 | | 22.0 | 200 | 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: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78MSD | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08MSD | Matrix: | SOIL |
| Analytical Method: | 8270E | % Solid: | 86.3 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF143033.D | 1 | 07/07/25 09:00 | 07/08/25 15:03 | PB168737 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1800 | | 25.9 | 200 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1800 | | 34.1 | 200 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1400 | | 33.7 | 200 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1400 | | 31.7 | 200 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1300 | | 29.7 | 200 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1800 | | 29.6 | 200 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1300 | | 52.3 | 200 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1300 | | 31.7 | 200 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 71.8 | | 18 - 112 | 48% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 70.7 | | 15 - 107 | 47% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 45.9 | | 18 - 107 | 46% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 45.7 | | 20 - 109 | 46% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 64.2 | | 10 - 116 | 43% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 34.1 | | 10 - 105 | 34% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 51200 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 192000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 95500 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 140000 | 11.41 | | | |
| 1719-03-5 | Chrysene-d12 | 99200 | 14.057 | | | |
| 1520-96-3 | Perylene-d12 | 123000 | 15.551 | | | |

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

# CALIBRATION SUMMARY

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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Fax : 908 789 8922



7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2514

Instrument ID: BNA_F Calibration Date/Time: 07/07/2025 12:12

Lab File ID: BF143003.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 | 1.159 | | -3.5 | |
| Benzaldehyde | 0.841 | 0.897 | | 6.7 | |
| Phenol-d6 | 1.417 | 1.363 | | -3.8 | |
| Phenol | 1.575 | 1.512 | | -4.0 | 20.0 |
| bis(2-Chloroethyl)ether | 1.126 | 1.086 | | -3.6 | |
| 2-Chlorophenol | 1.296 | 1.244 | | -4.0 | |
| 2-Methylphenol | 0.982 | 0.979 | | -0.3 | |
| 2,2-oxybis(1-Chloropropane) | 1.809 | 1.645 | | -9.1 | |
| Acetophenone | 0.441 | 0.434 | | -1.6 | |
| 3+4-Methylphenols | 1.224 | 1.224 | | 0.0 | |
| n-Nitroso-di-n-propylamine | 0.824 | 0.811 | 0.050 | -1.6 | |
| Nitrobenzene-d5 | 0.365 | 0.385 | | 5.5 | |
| Hexachloroethane | 0.511 | 0.506 | | -1.0 | |
| Nitrobenzene | 0.330 | 0.319 | | -3.3 | |
| Isophorone | 0.585 | 0.566 | | -3.2 | |
| 2-Nitrophenol | 0.180 | 0.184 | | 2.2 | 20.0 |
| 2,4-Dimethylphenol | 0.311 | 0.300 | | -3.5 | |
| bis(2-Chloroethoxy)methane | 0.372 | 0.368 | | -1.1 | |
| 2,4-Dichlorophenol | 0.282 | 0.278 | | -1.4 | 20.0 |
| Naphthalene | 0.979 | 0.963 | | -1.6 | |
| 4-Chloroaniline | 0.398 | 0.370 | | -7.0 | |
| Hexachlorobutadiene | 0.190 | 0.191 | | 0.5 | 20.0 |
| Caprolactam | 0.075 | 0.072 | | -4.0 | |
| 4-Chloro-3-methylphenol | 0.281 | 0.276 | | -1.8 | 20.0 |
| 2-Methylnaphthalene | 0.607 | 0.593 | | -2.3 | |
| Hexachlorocyclopentadiene | 0.335 | 0.343 | 0.050 | 2.4 | |
| 2,4,6-Trichlorophenol | 0.385 | 0.364 | | -5.5 | 20.0 |
| 2-Fluorobiphenyl | 1.522 | 1.599 | | 5.1 | |
| 2,4,5-Trichlorophenol | 0.405 | 0.378 | | -6.7 | |
| 1,1-Biphenyl | 1.580 | 1.546 | | -2.2 | |
| 2-Chloronaphthalene | 1.186 | 1.160 | | -2.2 | |
| 2-Nitroaniline | 0.332 | 0.322 | | -3.0 | |
| Dimethylphthalate | 1.295 | 1.251 | | -3.4 | |
| Acenaphthylene | 1.952 | 1.905 | | -2.4 | |
| 2,6-Dinitrotoluene | 0.284 | 0.276 | | -2.8 | |
| 3-Nitroaniline | 0.313 | 0.297 | | -5.1 | |
| Acenaphthene | 1.191 | 1.193 | | 0.2 | 20.0 |
| 2,4-Dinitrophenol | 0.142 | 0.169 | 0.050 | 19.0 | |
| 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: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2514

Instrument ID: BNA_F Calibration Date/Time: 07/07/2025 12:12

Lab File ID: BF143003.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 | 1.645 | | -3.7 | |
| 2,4-Dinitrotoluene | 0.378 | 0.360 | | -4.8 | |
| Diethylphthalate | 1.269 | 1.220 | | -3.9 | |
| 4-Chlorophenyl-phenylether | 0.636 | 0.616 | | -3.1 | |
| Fluorene | 1.334 | 1.274 | | -4.5 | |
| 4-Nitroaniline | 0.286 | 0.265 | | -7.3 | |
| 4,6-Dinitro-2-methylphenol | 0.121 | 0.121 | | 0.0 | |
| n-Nitrosodiphenylamine | 0.693 | 0.704 | | 1.6 | 20.0 |
| 2,4,6-Tribromophenol | 0.206 | 0.187 | | -9.2 | |
| 4-Bromophenyl-phenylether | 0.228 | 0.232 | | 1.8 | |
| Hexachlorobenzene | 0.253 | 0.255 | | 0.8 | |
| Atrazine | 0.179 | 0.184 | | 2.8 | |
| Pentachlorophenol | 0.126 | 0.143 | | 13.5 | 20.0 |
| Phenanthrene | 1.083 | 1.050 | | -3.0 | |
| Anthracene | 1.111 | 1.081 | | -2.7 | |
| Carbazole | 0.959 | 0.888 | | -7.4 | |
| Di-n-butylphthalate | 0.999 | 1.010 | | 1.1 | |
| Fluoranthene | 1.028 | 0.933 | | -9.2 | 20.0 |
| Pyrene | 1.875 | 1.782 | | -5.0 | |
| Terphenyl-d14 | 1.447 | 1.318 | | -8.9 | |
| Butylbenzylphthalate | 0.544 | 0.602 | | 10.7 | |
| 3,3-Dichlorobenzidine | 0.438 | 0.480 | | 9.6 | |
| Benzo(a)anthracene | 1.349 | 1.319 | | -2.2 | |
| Chrysene | 1.204 | 1.216 | | 1.0 | |
| Bis(2-ethylhexyl)phthalate | 0.782 | 0.919 | | 17.5 | |
| Di-n-octyl phthalate | 1.475 | 1.705 | | 15.6 | 20.0 |
| Benzo(b)fluoranthene | 1.157 | 1.189 | | 2.8 | |
| Benzo(k)fluoranthene | 1.083 | 1.000 | | -7.7 | |
| Benzo(a)pyrene | 1.118 | 1.099 | | -1.7 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.523 | 1.334 | | -12.4 | |
| Dibenzo(a,h)anthracene | 1.238 | 1.100 | | -11.1 | |
| Benzo(g,h,i)perylene | 1.234 | 1.044 | | -15.4 | |
| 1,2,4,5-Tetrachlorobenzene | 0.590 | 0.592 | | 0.3 | |
| 1,4-Dioxane | 0.480 | 0.430 | | -10.4 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.326 | 0.293 | | -10.1 | |

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: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2514

Instrument ID: BNA_F Calibration Date/Time: 07/08/2025 10:54

Lab File ID: BF143025.D Init. Calib. Date(s): 06/19/2025 06/19/2025

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

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.201 | 1.183 | | -1.5 | |
| Benzaldehyde | 0.841 | 0.903 | | 7.4 | |
| Phenol-d6 | 1.417 | 1.384 | | -2.3 | |
| Phenol | 1.575 | 1.550 | | -1.6 | 20.0 |
| bis(2-Chloroethyl)ether | 1.126 | 1.102 | | -2.1 | |
| 2-Chlorophenol | 1.296 | 1.276 | | -1.5 | |
| 2-Methylphenol | 0.982 | 0.973 | | -0.9 | |
| 2,2-oxybis(1-Chloropropane) | 1.809 | 1.645 | | -9.1 | |
| Acetophenone | 0.441 | 0.431 | | -2.3 | |
| 3+4-Methylphenols | 1.224 | 1.225 | | 0.1 | |
| n-Nitroso-di-n-propylamine | 0.824 | 0.805 | 0.050 | -2.3 | |
| Nitrobenzene-d5 | 0.365 | 0.385 | | 5.5 | |
| Hexachloroethane | 0.511 | 0.498 | | -2.5 | |
| Nitrobenzene | 0.330 | 0.315 | | -4.5 | |
| Isophorone | 0.585 | 0.566 | | -3.2 | |
| 2-Nitrophenol | 0.180 | 0.181 | | 0.6 | 20.0 |
| 2,4-Dimethylphenol | 0.311 | 0.301 | | -3.2 | |
| bis(2-Chloroethoxy)methane | 0.372 | 0.361 | | -3.0 | |
| 2,4-Dichlorophenol | 0.282 | 0.275 | | -2.5 | 20.0 |
| Naphthalene | 0.979 | 0.952 | | -2.8 | |
| 4-Chloroaniline | 0.398 | 0.391 | | -1.8 | |
| Hexachlorobutadiene | 0.190 | 0.185 | | -2.6 | 20.0 |
| Caprolactam | 0.075 | 0.078 | | 4.0 | |
| 4-Chloro-3-methylphenol | 0.281 | 0.276 | | -1.8 | 20.0 |
| 2-Methylnaphthalene | 0.607 | 0.594 | | -2.1 | |
| Hexachlorocyclopentadiene | 0.335 | 0.341 | 0.050 | 1.8 | |
| 2,4,6-Trichlorophenol | 0.385 | 0.367 | | -4.7 | 20.0 |
| 2-Fluorobiphenyl | 1.522 | 1.552 | | 2.0 | |
| 2,4,5-Trichlorophenol | 0.405 | 0.383 | | -5.4 | |
| 1,1-Biphenyl | 1.580 | 1.507 | | -4.6 | |
| 2-Chloronaphthalene | 1.186 | 1.125 | | -5.1 | |
| 2-Nitroaniline | 0.332 | 0.326 | | -1.8 | |
| Dimethylphthalate | 1.295 | 1.287 | | -0.6 | |
| Acenaphthylene | 1.952 | 1.854 | | -5.0 | |
| 2,6-Dinitrotoluene | 0.284 | 0.279 | | -1.8 | |
| 3-Nitroaniline | 0.313 | 0.304 | | -2.9 | |
| Acenaphthene | 1.191 | 1.180 | | -0.9 | 20.0 |
| 2,4-Dinitrophenol | 0.142 | 0.188 | 0.050 | 32.4 | |
| 4-Nitrophenol | 0.214 | 0.259 | 0.050 | 21.0 | |

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2514

Instrument ID: BNA_F Calibration Date/Time: 07/08/2025 10:54

Lab File ID: BF143025.D Init. Calib. Date(s): 06/19/2025 06/19/2025

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

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.708 | 1.634 | | -4.3 | |
| 2,4-Dinitrotoluene | 0.378 | 0.376 | | -0.5 | |
| Diethylphthalate | 1.269 | 1.241 | | -2.2 | |
| 4-Chlorophenyl-phenylether | 0.636 | 0.623 | | -2.0 | |
| Fluorene | 1.334 | 1.302 | | -2.4 | |
| 4-Nitroaniline | 0.286 | 0.282 | | -1.4 | |
| 4,6-Dinitro-2-methylphenol | 0.121 | 0.120 | | -0.8 | |
| n-Nitrosodiphenylamine | 0.693 | 0.683 | | -1.4 | 20.0 |
| 2,4,6-Tribromophenol | 0.206 | 0.200 | | -2.9 | |
| 4-Bromophenyl-phenylether | 0.228 | 0.230 | | 0.9 | |
| Hexachlorobenzene | 0.253 | 0.251 | | -0.8 | |
| Atrazine | 0.179 | 0.189 | | 5.6 | |
| Pentachlorophenol | 0.126 | 0.185 | | 46.8 | 20.0 |
| Phenanthrene | 1.083 | 1.051 | | -3.0 | |
| Anthracene | 1.111 | 1.089 | | -2.0 | |
| Carbazole | 0.959 | 0.908 | | -5.3 | |
| Di-n-butylphthalate | 0.999 | 1.022 | | 2.3 | |
| Fluoranthene | 1.028 | 0.959 | | -6.7 | 20.0 |
| Pyrene | 1.875 | 2.136 | | 13.9 | |
| Terphenyl-d14 | 1.447 | 1.536 | | 6.2 | |
| Butylbenzylphthalate | 0.544 | 0.573 | | 5.3 | |
| 3,3-Dichlorobenzidine | 0.438 | 0.444 | | 1.4 | |
| Benzo(a)anthracene | 1.349 | 1.310 | | -2.9 | |
| Chrysene | 1.204 | 1.161 | | -3.6 | |
| Bis(2-ethylhexyl)phthalate | 0.782 | 0.775 | | -0.9 | |
| Di-n-octyl phthalate | 1.475 | 1.479 | | 0.3 | 20.0 |
| Benzo(b)fluoranthene | 1.157 | 1.133 | | -2.1 | |
| Benzo(k)fluoranthene | 1.083 | 0.990 | | -8.6 | |
| Benzo(a)pyrene | 1.118 | 1.090 | | -2.5 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.523 | 1.509 | | -0.9 | |
| Dibenzo(a,h)anthracene | 1.238 | 1.206 | | -2.6 | |
| Benzo(g,h,i)perylene | 1.234 | 1.198 | | -2.9 | |
| 1,2,4,5-Tetrachlorobenzene | 0.590 | 0.574 | | -2.7 | |
| 1,4-Dioxane | 0.480 | 0.434 | | -9.6 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.326 | 0.307 | | -5.8 | |

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2514

Instrument ID: BNA_F Calibration Date/Time: 07/09/2025 10:52

Lab File ID: BF143048.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 | 1.190 | | -0.9 | |
| Benzaldehyde | 0.841 | 0.917 | | 9.0 | |
| Phenol-d6 | 1.417 | 1.399 | | -1.3 | |
| Phenol | 1.575 | 1.548 | | -1.7 | 20.0 |
| bis(2-Chloroethyl)ether | 1.126 | 1.113 | | -1.2 | |
| 2-Chlorophenol | 1.296 | 1.293 | | -0.2 | |
| 2-Methylphenol | 0.982 | 0.968 | | -1.4 | |
| 2,2-oxybis(1-Chloropropane) | 1.809 | 1.636 | | -9.6 | |
| Acetophenone | 0.441 | 0.435 | | -1.4 | |
| 3+4-Methylphenols | 1.224 | 1.238 | | 1.1 | |
| n-Nitroso-di-n-propylamine | 0.824 | 0.819 | 0.050 | -0.6 | |
| Nitrobenzene-d5 | 0.365 | 0.383 | | 4.9 | |
| Hexachloroethane | 0.511 | 0.503 | | -1.6 | |
| Nitrobenzene | 0.330 | 0.321 | | -2.7 | |
| Isophorone | 0.585 | 0.566 | | -3.2 | |
| 2-Nitrophenol | 0.180 | 0.180 | | 0.0 | 20.0 |
| 2,4-Dimethylphenol | 0.311 | 0.298 | | -4.2 | |
| bis(2-Chloroethoxy)methane | 0.372 | 0.364 | | -2.2 | |
| 2,4-Dichlorophenol | 0.282 | 0.277 | | -1.8 | 20.0 |
| Naphthalene | 0.979 | 0.942 | | -3.8 | |
| 4-Chloroaniline | 0.398 | 0.385 | | -3.3 | |
| Hexachlorobutadiene | 0.190 | 0.187 | | -1.6 | 20.0 |
| Caprolactam | 0.075 | 0.073 | | -2.7 | |
| 4-Chloro-3-methylphenol | 0.281 | 0.274 | | -2.5 | 20.0 |
| 2-Methylnaphthalene | 0.607 | 0.598 | | -1.5 | |
| Hexachlorocyclopentadiene | 0.335 | 0.341 | 0.050 | 1.8 | |
| 2,4,6-Trichlorophenol | 0.385 | 0.356 | | -7.5 | 20.0 |
| 2-Fluorobiphenyl | 1.522 | 1.555 | | 2.2 | |
| 2,4,5-Trichlorophenol | 0.405 | 0.379 | | -6.4 | |
| 1,1-Biphenyl | 1.580 | 1.532 | | -3.0 | |
| 2-Chloronaphthalene | 1.186 | 1.134 | | -4.4 | |
| 2-Nitroaniline | 0.332 | 0.317 | | -4.5 | |
| Dimethylphthalate | 1.295 | 1.268 | | -2.1 | |
| Acenaphthylene | 1.952 | 1.863 | | -4.6 | |
| 2,6-Dinitrotoluene | 0.284 | 0.281 | | -1.1 | |
| 3-Nitroaniline | 0.313 | 0.292 | | -6.7 | |
| Acenaphthene | 1.191 | 1.172 | | -1.6 | 20.0 |
| 2,4-Dinitrophenol | 0.142 | 0.173 | 0.050 | 21.8 | |
| 4-Nitrophenol | 0.214 | 0.250 | 0.050 | 16.8 | |

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG No.: Q2514

Instrument ID: BNA_F Calibration Date/Time: 07/09/2025 10:52

Lab File ID: BF143048.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 | 1.630 | | -4.6 | |
| 2,4-Dinitrotoluene | 0.378 | 0.375 | | -0.8 | |
| Diethylphthalate | 1.269 | 1.231 | | -3.0 | |
| 4-Chlorophenyl-phenylether | 0.636 | 0.620 | | -2.5 | |
| Fluorene | 1.334 | 1.292 | | -3.1 | |
| 4-Nitroaniline | 0.286 | 0.271 | | -5.2 | |
| 4,6-Dinitro-2-methylphenol | 0.121 | 0.118 | | -2.5 | |
| n-Nitrosodiphenylamine | 0.693 | 0.678 | | -2.2 | 20.0 |
| 2,4,6-Tribromophenol | 0.206 | 0.202 | | -1.9 | |
| 4-Bromophenyl-phenylether | 0.228 | 0.229 | | 0.4 | |
| Hexachlorobenzene | 0.253 | 0.249 | | -1.6 | |
| Atrazine | 0.179 | 0.180 | | 0.6 | |
| Pentachlorophenol | 0.126 | 0.181 | | 43.7 | 20.0 |
| Phenanthrene | 1.083 | 1.038 | | -4.2 | |
| Anthracene | 1.111 | 1.064 | | -4.2 | |
| Carbazole | 0.959 | 0.897 | | -6.5 | |
| Di-n-butylphthalate | 0.999 | 0.985 | | -1.4 | |
| Fluoranthene | 1.028 | 0.934 | | -9.1 | 20.0 |
| Pyrene | 1.875 | 2.057 | | 9.7 | |
| Terphenyl-d14 | 1.447 | 1.481 | | 2.3 | |
| Butylbenzylphthalate | 0.544 | 0.572 | | 5.1 | |
| 3,3-Dichlorobenzidine | 0.438 | 0.472 | | 7.8 | |
| Benzo(a)anthracene | 1.349 | 1.327 | | -1.6 | |
| Chrysene | 1.204 | 1.179 | | -2.1 | |
| Bis(2-ethylhexyl)phthalate | 0.782 | 0.881 | | 12.7 | |
| Di-n-octyl phthalate | 1.475 | 1.717 | | 16.4 | 20.0 |
| Benzo(b)fluoranthene | 1.157 | 1.101 | | -4.8 | |
| Benzo(k)fluoranthene | 1.083 | 1.058 | | -2.3 | |
| Benzo(a)pyrene | 1.118 | 1.086 | | -2.9 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.523 | 1.452 | | -4.7 | |
| Dibenzo(a,h)anthracene | 1.238 | 1.181 | | -4.6 | |
| Benzo(g,h,i)perylene | 1.234 | 1.161 | | -5.9 | |
| 1,2,4,5-Tetrachlorobenzene | 0.590 | 0.572 | | -3.1 | |
| 1,4-Dioxane | 0.480 | 0.441 | | -8.1 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.326 | 0.318 | | -2.5 | |

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2514 | **OrderDate:** | 7/3/2025 1:29:00 PM |
| **Client:** | CDM Smith | **Project:** | South River WM Replacement |
| **Contact:** | Marcie Ann Encinas | **Location:** | O21,O22,VOA Lab |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2514-01** | **TP-92** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-02** | **TP-93** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-03** | **TP-94** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-04** | **TP-96** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-05** | **TP-97** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |

## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-06** | **TP-103** | **SOIL** | | | **07/02/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-07** | **TP-36** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-08** | **TP-78** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-09** | **TP-81** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-10** | **TP-90** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-10RE** | **TP-90RE** | **SOIL** | | | **07/03/25** | | **07/03/25** |

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## LAB CHRONICLE

| | | | |
|---|---|---|---|
| Herbicide | 8151A | 07/08/25 | 07/11/25 |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 87.4 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 |
|---|---|---|---|
| FB032046.D | 1 | 07/09/25 16:42 | FB070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 11.0 | J | 9.00 | 50.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 16.6 | | 50 - 150 | 83% | SPK: 20 |

Comments:

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

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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 87.7 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 |
|---|---|---|---|
| FB032045.D | 1 | 07/09/25 16:15 | FB070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 15.0 | J | 9.00 | 51.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 16.5 | | 50 - 150 | 82% | 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
* = Values outside of QC 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: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 88.1 Decanted: |
| Sample Wt/Vol: | 4.6 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 |
|---|---|---|---|
| FB032049.D | 1 | 07/09/25 18:05 | FB070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 10.0 | U | 10.0 | 56.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 8.11 | * | 50 - 150 | 41% | SPK: 20 |

Comments:

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

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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 85.8 Decanted: |
| Sample Wt/Vol: | 4.6 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 |
|---|---|---|---|
| FB032050.D | 1 | 07/09/25 18:32 | FB070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 10.0 | U | 10.0 | 57.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 16.7 | | 50 - 150 | 83% | SPK: 20 |

Comments:

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

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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 85 Decanted: |
| Sample Wt/Vol: | 6.5 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 |
|---|---|---|---|
| FB032051.D | 1 | 07/09/25 19:00 | FB070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 13.0 | J | 7.00 | 41.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 16.2 | | 50 - 150 | 81% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 86.5 Decanted: |
| Sample Wt/Vol: | 5.3 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB032052.D | 1 | 07/09/25 19:27 | FB070925 |

| 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 | 16.2 | | 50 - 150 | 81% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 90.3 Decanted: |
| Sample Wt/Vol: | 4 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB032048.D | 1 | 07/09/25 17:37 | FB070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 11.0 | U | 11.0 | 62.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 17.7 | | 50 - 150 | 89% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 86.3 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 |
|---|---|---|---|
| FB032047.D | 1 | 07/09/25 17:10 | FB070925 |

| 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 | 18.2 | | 50 - 150 | 91% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 86.3 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 |
|---|---|---|---|
| FB032054.D | 1 | 07/09/25 20:21 | FB070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 10.0 | U | 10.0 | 52.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 15.8 | | 50 - 150 | 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 91.6 Decanted: |
| Sample Wt/Vol: | 4.2 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 |
|---|---|---|---|
| FB032053.D | 1 | 07/09/25 19:54 | FB070925 |

| 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 | 17.4 | | 50 - 150 | 87% | 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
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

# QC SUMMARY

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## SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance Client: CDM Smith

Lab Code: ACE SDG No.: Q2514

| CLIENT ID | S1 AAA-TFT | S2 | S3 | S4 | TOT OUT |
|---|---|---|---|---|---|
| VBF0709S1 | 114 | | | | 0 |
| BSF0709S1 | 85 | | | | 0 |
| BSF0709S2 | 87 | | | | 0 |
| TP-93 | 82 | | | | 0 |
| TP-92 | 83 | | | | 0 |
| TP-78 | 91 | | | | 0 |
| TP-36 | 89 | | | | 0 |
| TP-94 | 41 * | | | | 1 |
| TP-96 | 83 | | | | 0 |
| TP-97 | 81 | | | | 0 |
| TP-103 | 81 | | | | 0 |
| TP-90 | 87 | | | | 0 |
| TP-81 | 79 | | | | 0 |

| | QC LIMITS |
|---|---|
| AAA-TFT | For Water : 50-150<br>For Soil : 50-150 |

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

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

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

**Lab Code:** ACE **SDG No:** Q2514

**Client Sample ID :** BSF0709S1 **Datafile:** FB032036.D

| COMPOUND | SPIKE ADDED ug/kg | CONCENTRATION ug/kg | LCS/LCSD CONCENTRATION ug/kg | % REC | QC LIMITS (%) |
|---|---|---|---|---|---|
| GRO | 180 | 0 | 151 | 84 | 50-150 |

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

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

**Lab Code:** ACE **SDG No:** Q2514

**Client Sample ID :** BSF0709S2 **Datafile:** FB032043.D

| COMPOUND | SPIKE ADDED ug/kg | CONCENTRATION ug/kg | LCS/LCSD CONCENTRATION ug/kg | % REC | QC LIMITS (%) |
|---|---|---|---|---|---|
| GRO | 180 | 0 | 149 | 83 | 50-150 |

LCS/LCSD % Recovery RPD : 1.3

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# METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0709S1

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2514

Lab File ID: FB032034.D Lab Sample ID: VBF0709S1

Date Analyzed: 07/09/25 Time Analyzed: 9:18

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

Instrument ID: FB

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

| CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| BSF0709S1 | BSF0709S1 | FB032036.D | 07/09/25 |
| BSF0709S2 | BSF0709S2 | FB032043.D | 07/09/25 |
| TP-93 | Q2514-02 | FB032045.D | 07/09/25 |
| TP-92 | Q2514-01 | FB032046.D | 07/09/25 |
| TP-78 | Q2514-08 | FB032047.D | 07/09/25 |
| TP-36 | Q2514-07 | FB032048.D | 07/09/25 |
| TP-94 | Q2514-03 | FB032049.D | 07/09/25 |
| TP-96 | Q2514-04 | FB032050.D | 07/09/25 |
| TP-97 | Q2514-05 | FB032051.D | 07/09/25 |
| TP-103 | Q2514-06 | FB032052.D | 07/09/25 |
| TP-90 | Q2514-10 | FB032053.D | 07/09/25 |
| TP-81 | Q2514-09 | FB032054.D | 07/09/25 |

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: | VBF0709S1 | SDG No.: | Q2514 |
| Lab Sample ID: | VBF0709S1 | 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 |
|---|---|---|---|
| FB032034.D | 1 | 07/09/25 9:18 | FB070925 |

| 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 | 22.7 | | 50 - 150 | 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: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | BSF0709S1 | SDG No.: | Q2514 |
| Lab Sample ID: | BSF0709S1 | 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 |
|---|---|---|---|
| FB032036.D | 1 | 07/09/25 10:13 | FB070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 151 | | 8.00 | 45.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 17.0 | | 50 - 150 | 85% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | BSF0709S2 | SDG No.: | Q2514 |
| Lab Sample ID: | BSF0709S2 | 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 |
|---|---|---|---|
| FB032043.D | 1 | 07/09/25 13:42 | FB070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 149 | | 8.00 | 45.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 17.4 | | 50 - 150 | 87% | SPK: 20 |

Comments:

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

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

# CALIBRATION SUMMARY

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## GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2514

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

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## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2514

DataFile: FB032033.D Analyst Name: YP/AJ Analyst Date: 07-09-2025

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 4590295 | 25502 | 29754 | 14.291 |

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## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2514

DataFile: FB032044.D Analyst Name: YP/AJ Analyst Date: 07-09-2025

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 4650509 | 25836 | 29754 | 13.168 |

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## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2514

DataFile: FB032058.D Analyst Name: YP/AJ Analyst Date: 07-09-2025

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 4564441 | 25358 | 29754 | 14.774 |

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# Analytical Sequence

**Client:** CDM Smith **SDG No.:** Q2514

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

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

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

**MEAN SUROGATE RT FROM INITIAL CALIBRATION** **8.798**

| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE AND TIME ANALYZED | DATAFILE | RT | # |
|---|---|---|---|---|---|
| 20 PPB GRO STD | 20 PPB GRO STD | 9 Jul 2025 8:12 | FB032033.D | 8.799 | |
| VBF0709S1 | VBF0709S1 | 9 Jul 2025 9:18 | FB032034.D | 8.798 | |
| BSF0709S1 | BSF0709S1 | 9 Jul 2025 10:13 | FB032036.D | 8.798 | |
| BSF0709S2 | BSF0709S2 | 9 Jul 2025 13:42 | FB032043.D | 8.799 | |
| 20 PPB GRO STD | 20 PPB GRO STD | 9 Jul 2025 15:30 | FB032044.D | 8.801 | |
| TP-93 | Q2514-02 | 9 Jul 2025 16:15 | FB032045.D | 8.801 | |
| TP-92 | Q2514-01 | 9 Jul 2025 16:42 | FB032046.D | 8.800 | |
| TP-78 | Q2514-08 | 9 Jul 2025 17:10 | FB032047.D | 8.802 | |
| TP-36 | Q2514-07 | 9 Jul 2025 17:37 | FB032048.D | 8.803 | |
| TP-94 | Q2514-03 | 9 Jul 2025 18:05 | FB032049.D | 8.801 | |
| TP-96 | Q2514-04 | 9 Jul 2025 18:32 | FB032050.D | 8.802 | |
| TP-97 | Q2514-05 | 9 Jul 2025 19:00 | FB032051.D | 8.800 | |
| TP-103 | Q2514-06 | 9 Jul 2025 19:27 | FB032052.D | 8.800 | |
| TP-90 | Q2514-10 | 9 Jul 2025 19:54 | FB032053.D | 8.802 | |
| TP-81 | Q2514-09 | 9 Jul 2025 20:21 | FB032054.D | 8.800 | |
| 20 PPB GRO STD | 20 PPB GRO STD | 9 Jul 2025 22:10 | FB032058.D | 8.799 | |

**# 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 |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB070825\
Data File : FB032030.D
Signal(s) : FID2B.CH
Acq On : 8 Jul 2025 22:40
Operator : YP/AJ
Sample : Q2514-03
Misc : 4.00G/5.00 ML DI WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
TP-94

Integration File: SAMPLE.e
Quant Time: Jul 09 05:42:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB062325.M
Quant Title :
QLast Update : Mon Jun 23 13:56:54 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 5) s AAA-TFT | 8.799 | 234096 | 15.174 ng/ml |
| Target Compounds | | | |

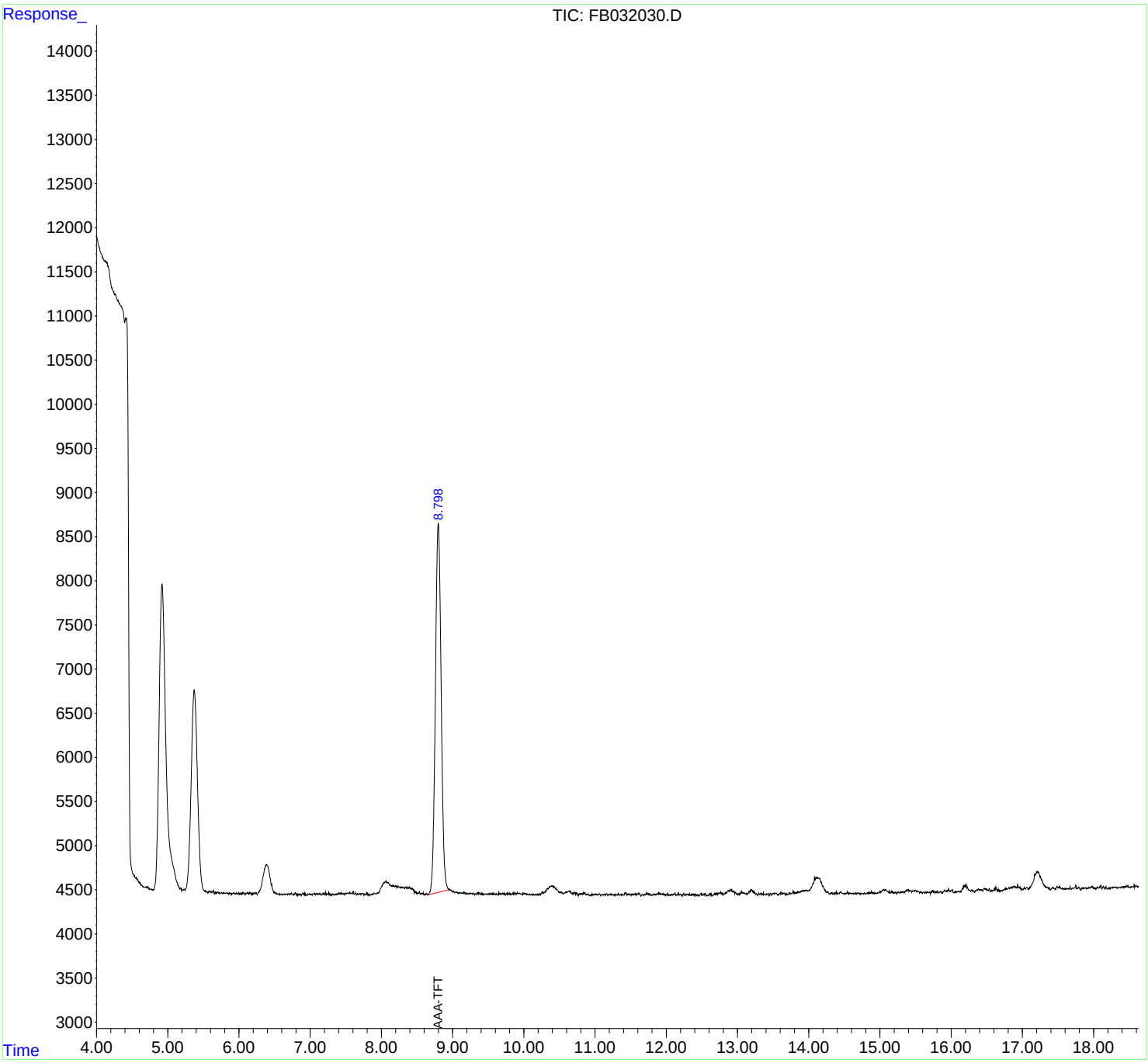
(f)=RT Delta > 1/2 Window (m)=manual int.

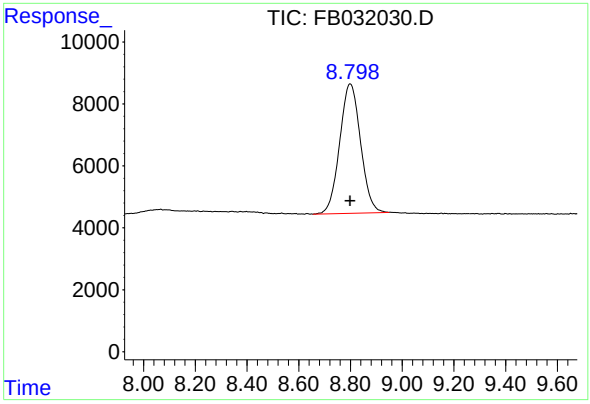
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB070825\
Data File : FB032030.D
Signal(s) : FID2B.CH
Acq On : 8 Jul 2025 22:40
Operator : YP/AJ
Sample : Q2514-03
Misc : 4.00G/5.00 ML DI WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
TP-94

Integration File: SAMPLE.e
Quant Time: Jul 09 05:42:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB062325.M
Quant Title :
QLast Update : Mon Jun 23 13:56:54 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um






#5 AAA-TFT

R.T.: 8.799 min
Delta R.T.: 0.002 min
Response: 234096
Conc: 15.17 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
TP-94

7
A
B
C
D
E
F
G

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB070825\
Data File : FB032030.D
Signal(s) : FID2B.CH
Acq On : 8 Jul 2025 22:40
Sample : Q2514-03
Misc : 4.00G/5.00 ML DI WATER
ALS Vial : 23 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB062325.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.688 | 4.637 | 4.707 | BV | 4 | 15 | 0.01% | 0.003% |
| 2 | 4.714 | 4.707 | 4.753 | VV | 18 | 248 | 0.10% | 0.055% |
| 3 | 4.767 | 4.753 | 4.801 | PV | 10 | 77 | 0.03% | 0.017% |
| 4 | 5.233 | 5.214 | 5.244 | VV | 30 | 439 | 0.18% | 0.097% |
| 5 | 5.592 | 5.567 | 5.614 | VV | 26 | 496 | 0.20% | 0.110% |
| 6 | 5.640 | 5.614 | 5.664 | VV | 26 | 494 | 0.20% | 0.109% |
| 7 | 5.674 | 5.664 | 5.686 | VV | 18 | 144 | 0.06% | 0.032% |
| 8 | 5.702 | 5.686 | 5.734 | VV | 15 | 349 | 0.14% | 0.077% |
| 9 | 5.754 | 5.734 | 5.773 | VV | 16 | 250 | 0.10% | 0.055% |
| 10 | 5.780 | 5.773 | 5.817 | VV | 23 | 329 | 0.13% | 0.073% |
| 11 | 5.836 | 5.817 | 5.859 | VV | 17 | 302 | 0.12% | 0.067% |
| 12 | 5.871 | 5.859 | 5.900 | PV | 19 | 282 | 0.12% | 0.063% |
| 13 | 5.928 | 5.900 | 5.957 | VV | 22 | 400 | 0.16% | 0.089% |
| 14 | 5.964 | 5.957 | 6.015 | VV | 20 | 370 | 0.15% | 0.082% |
| 15 | 6.048 | 6.015 | 6.087 | VV | 22 | 514 | 0.21% | 0.114% |
| 16 | 6.148 | 6.087 | 6.180 | VV | 24 | 823 | 0.34% | 0.182% |
| 17 | 6.217 | 6.180 | 6.257 | VV | 24 | 633 | 0.26% | 0.140% |
| 18 | 6.386 | 6.257 | 6.581 | VV | 346 | 25037 | 10.25% | 5.553% |
| 19 | 6.593 | 6.581 | 6.609 | VV | 15 | 149 | 0.06% | 0.033% |
| 20 | 6.638 | 6.609 | 6.686 | VV | 15 | 429 | 0.18% | 0.095% |
| 21 | 6.696 | 6.686 | 6.718 | VV | 18 | 271 | 0.11% | 0.060% |
| 22 | 6.735 | 6.718 | 6.765 | VV | 20 | 398 | 0.16% | 0.088% |
| 23 | 6.794 | 6.765 | 6.842 | VV | 31 | 628 | 0.26% | 0.139% |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 24 | 6.927 | 6.842 | 6.961 | VV | 32 | 788 | 0.32% | 0.175% |
| 25 | 6.991 | 6.961 | 7.031 | VV | 24 | 511 | 0.21% | 0.113% |
| 26 | 7.102 | 7.031 | 7.120 | VV | 28 | 898 | 0.37% | 0.199% |
| 27 | 7.132 | 7.120 | 7.162 | VV | 21 | 367 | 0.15% | 0.081% |
| 28 | 7.192 | 7.162 | 7.206 | VV | 33 | 454 | 0.19% | 0.101% |
| 29 | 7.264 | 7.206 | 7.299 | VV | 36 | 940 | 0.39% | 0.209% |
| 30 | 7.321 | 7.299 | 7.351 | PV | 19 | 406 | 0.17% | 0.090% |
| 31 | 7.435 | 7.351 | 7.454 | VV | 37 | 1332 | 0.55% | 0.295% |
| 32 | 7.556 | 7.454 | 7.590 | VV | 37 | 2155 | 0.88% | 0.478% |
| 33 | 7.609 | 7.590 | 7.625 | VV | 51 | 636 | 0.26% | 0.141% |
| 34 | 7.641 | 7.625 | 7.684 | VV | 35 | 714 | 0.29% | 0.158% |
| 35 | 7.739 | 7.684 | 7.772 | VV | 28 | 1067 | 0.44% | 0.237% |
| 36 | 7.796 | 7.772 | 7.849 | VV | 31 | 790 | 0.32% | 0.175% |
| 37 | 7.900 | 7.849 | 7.919 | VV | 31 | 872 | 0.36% | 0.193% |
| 38 | 8.065 | 7.919 | 8.189 | VV | 169 | 17016 | 6.97% | 3.774% |
| 39 | 8.201 | 8.189 | 8.327 | VV | 113 | 8235 | 3.37% | 1.826% |
| 40 | 8.342 | 8.327 | 8.512 | VV | 105 | 8004 | 3.28% | 1.775% |
| 41 | 8.534 | 8.512 | 8.623 | VV | 48 | 1742 | 0.71% | 0.386% |
| 42 | 8.634 | 8.623 | 8.657 | VV | 29 | 395 | 0.16% | 0.088% |
| 43 | 8.799 | 8.657 | 9.028 | VV | 4220 | 244182 | 100.00% | 54.156% |
| 44 | 9.046 | 9.028 | 9.138 | VV | 45 | 2459 | 1.01% | 0.545% |
| 45 | 9.152 | 9.138 | 9.233 | VV | 45 | 1700 | 0.70% | 0.377% |
| 46 | 9.287 | 9.233 | 9.310 | VV | 31 | 1230 | 0.50% | 0.273% |
| 47 | 9.349 | 9.310 | 9.451 | VV | 37 | 2093 | 0.86% | 0.464% |
| 48 | 9.466 | 9.451 | 9.483 | VV | 24 | 406 | 0.17% | 0.090% |
| 49 | 9.528 | 9.483 | 9.542 | VV | 28 | 774 | 0.32% | 0.172% |
| 50 | 9.558 | 9.542 | 9.592 | VV | 33 | 659 | 0.27% | 0.146% |
| 51 | 9.654 | 9.592 | 9.748 | VV | 37 | 2067 | 0.85% | 0.458% |
| 52 | 9.766 | 9.748 | 9.823 | VV | 38 | 1068 | 0.44% | 0.237% |
| 53 | 9.867 | 9.823 | 9.928 | VV | 35 | 1712 | 0.70% | 0.380% |
| 54 | 9.941 | 9.928 | 9.981 | VV | 34 | 814 | 0.33% | 0.181% |
| 55 | 9.991 | 9.981 | 10.061 | VV | 36 | 1107 | 0.45% | 0.246% |
| 56 | 10.076 | 10.061 | 10.101 | VV | 19 | 375 | 0.15% | 0.083% |
| 57 | 10.116 | 10.101 | 10.155 | VV | 21 | 523 | 0.21% | 0.116% |
| 58 | 10.170 | 10.155 | 10.187 | VV | 21 | 292 | 0.12% | 0.065% |
| 59 | 10.264 | 10.187 | 10.282 | VV | 52 | 1482 | 0.61% | 0.329% |
| 60 | 10.397 | 10.282 | 10.553 | VV | 112 | 12075 | 4.95% | 2.678% |
| 61 | 10.636 | 10.553 | 10.763 | VV | 58 | 4808 | 1.97% | 1.066% |
| 62 | 10.791 | 10.763 | 10.825 | VV | 30 | 883 | 0.36% | 0.196% |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 63 | 10.858 | 10.825 | 10.876 | VV | 42 | 851 | 0.35% | 0.189% |
| 64 | 10.888 | 10.876 | 10.930 | VV | 21 | 524 | 0.21% | 0.116% |
| 65 | 10.990 | 10.930 | 11.031 | VV | 25 | 995 | 0.41% | 0.221% |
| 66 | 11.065 | 11.031 | 11.084 | VV | 29 | 583 | 0.24% | 0.129% |
| 67 | 11.162 | 11.084 | 11.182 | VV | 25 | 1045 | 0.43% | 0.232% |
| 68 | 11.228 | 11.182 | 11.284 | VV | 28 | 1031 | 0.42% | 0.229% |
| 69 | 11.293 | 11.284 | 11.315 | VV | 26 | 325 | 0.13% | 0.072% |
| 70 | 11.328 | 11.315 | 11.368 | VV | 27 | 549 | 0.22% | 0.122% |
| 71 | 11.429 | 11.368 | 11.464 | VV | 39 | 1218 | 0.50% | 0.270% |
| 72 | 11.486 | 11.464 | 11.507 | VV | 20 | 472 | 0.19% | 0.105% |
| 73 | 11.560 | 11.507 | 11.582 | VV | 27 | 853 | 0.35% | 0.189% |
| 74 | 11.614 | 11.582 | 11.646 | VV | 38 | 835 | 0.34% | 0.185% |
| 75 | 11.664 | 11.646 | 11.682 | PV | 20 | 276 | 0.11% | 0.061% |
| 76 | 11.721 | 11.682 | 11.796 | VV | 39 | 1462 | 0.60% | 0.324% |
| 77 | 11.820 | 11.796 | 11.841 | VV | 27 | 467 | 0.19% | 0.104% |
| 78 | 11.899 | 11.841 | 11.993 | VV | 43 | 2106 | 0.86% | 0.467% |
| 79 | 12.022 | 11.993 | 12.061 | VV | 19 | 629 | 0.26% | 0.139% |
| 80 | 12.078 | 12.061 | 12.097 | VV | 16 | 356 | 0.15% | 0.079% |
| 81 | 12.120 | 12.097 | 12.152 | VV | 28 | 659 | 0.27% | 0.146% |
| 82 | 12.170 | 12.152 | 12.184 | VV | 27 | 393 | 0.16% | 0.087% |
| 83 | 12.200 | 12.184 | 12.220 | VV | 23 | 361 | 0.15% | 0.080% |
| 84 | 12.246 | 12.220 | 12.277 | PV | 33 | 553 | 0.23% | 0.123% |
| 85 | 12.327 | 12.277 | 12.339 | VV | 26 | 617 | 0.25% | 0.137% |
| 86 | 12.389 | 12.339 | 12.424 | VV | 25 | 788 | 0.32% | 0.175% |
| 87 | 12.444 | 12.424 | 12.461 | VV | 19 | 241 | 0.10% | 0.054% |
| 88 | 12.485 | 12.461 | 12.523 | VV | 31 | 602 | 0.25% | 0.133% |
| 89 | 12.549 | 12.523 | 12.573 | VV | 29 | 516 | 0.21% | 0.114% |
| 90 | 12.616 | 12.573 | 12.643 | VV | 28 | 608 | 0.25% | 0.135% |
| 91 | 12.712 | 12.643 | 12.784 | PV | 40 | 2056 | 0.84% | 0.456% |
| 92 | 12.795 | 12.784 | 12.810 | VV | 35 | 402 | 0.16% | 0.089% |
| 93 | 12.912 | 12.810 | 13.046 | VV | 77 | 5575 | 2.28% | 1.236% |
| 94 | 13.056 | 13.046 | 13.130 | VV | 43 | 1530 | 0.63% | 0.339% |
| 95 | 13.198 | 13.130 | 13.287 | VV | 66 | 3432 | 1.41% | 0.761% |
| 96 | 13.303 | 13.287 | 13.314 | PV | 27 | 247 | 0.10% | 0.055% |
| 97 | 13.363 | 13.314 | 13.413 | VV | 32 | 999 | 0.41% | 0.222% |
| 98 | 13.429 | 13.413 | 13.449 | VV | 23 | 304 | 0.12% | 0.068% |
| 99 | 13.462 | 13.449 | 13.478 | VV | 28 | 252 | 0.10% | 0.056% |
| 100 | 13.501 | 13.478 | 13.516 | VV | 22 | 396 | 0.16% | 0.088% |
| 101 | 13.541 | 13.516 | 13.577 | VV | 28 | 657 | 0.27% | 0.146% |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 102 | 13.610 | 13.577 | 13.678 | VV | 32 | 1188 | 0.49% | 0.263% |
| 103 | 13.726 | 13.678 | 13.757 | VV | 29 | 707 | 0.29% | 0.157% |
| 104 | 13.783 | 13.757 | 13.875 | VV | 49 | 2149 | 0.88% | 0.477% |
| 105 | 13.968 | 13.875 | 13.985 | VV | 55 | 3092 | 1.27% | 0.686% |
| 106 | 14.120 | 13.985 | 14.293 | VV | 196 | 19615 | 8.03% | 4.350% |
| 107 | 14.326 | 14.293 | 14.342 | VV | 23 | 464 | 0.19% | 0.103% |
| 108 | 14.387 | 14.342 | 14.414 | VV | 37 | 682 | 0.28% | 0.151% |
| 109 | 14.451 | 14.414 | 14.514 | VV | 33 | 933 | 0.38% | 0.207% |
| 110 | 14.542 | 14.514 | 14.630 | VV | 31 | 909 | 0.37% | 0.202% |
| 111 | 14.702 | 14.630 | 14.735 | VV | 17 | 673 | 0.28% | 0.149% |
| 112 | 14.752 | 14.735 | 14.772 | PV | 15 | 189 | 0.08% | 0.042% |
| 113 | 14.782 | 14.772 | 14.799 | VV | 18 | 143 | 0.06% | 0.032% |
| 114 | 14.880 | 14.799 | 14.950 | VV | 30 | 1081 | 0.44% | 0.240% |
| 115 | 15.052 | 14.950 | 15.069 | VV | 54 | 1954 | 0.80% | 0.433% |
| 116 | 15.080 | 15.069 | 15.153 | VV | 50 | 1434 | 0.59% | 0.318% |
| 117 | 15.168 | 15.153 | 15.197 | VV | 29 | 410 | 0.17% | 0.091% |
| 118 | 15.219 | 15.197 | 15.236 | VV | 15 | 250 | 0.10% | 0.055% |
| 119 | 15.256 | 15.236 | 15.281 | VV | 23 | 347 | 0.14% | 0.077% |
| 120 | 15.379 | 15.281 | 15.447 | VV | 47 | 2626 | 1.08% | 0.582% |
| 121 | 15.501 | 15.447 | 15.601 | VV | 36 | 1944 | 0.80% | 0.431% |
| 122 | 15.615 | 15.601 | 15.650 | VV | 17 | 282 | 0.12% | 0.062% |
| 123 | 15.742 | 15.650 | 15.773 | VV | 34 | 912 | 0.37% | 0.202% |
| 124 | 15.794 | 15.773 | 15.824 | VV | 18 | 346 | 0.14% | 0.077% |
| 125 | 15.847 | 15.824 | 15.876 | VV | 18 | 264 | 0.11% | 0.058% |
| 126 | 15.910 | 15.876 | 15.931 | VV | 30 | 572 | 0.23% | 0.127% |
| 127 | 15.967 | 15.931 | 15.991 | VV | 45 | 906 | 0.37% | 0.201% |
| 128 | 16.016 | 15.991 | 16.042 | VV | 37 | 610 | 0.25% | 0.135% |
| 129 | 16.196 | 16.042 | 16.277 | PV | 77 | 4499 | 1.84% | 0.998% |
| 130 | 16.291 | 16.277 | 16.333 | VV | 30 | 549 | 0.22% | 0.122% |
| 131 | 16.385 | 16.333 | 16.447 | PV | 31 | 1500 | 0.61% | 0.333% |
| 132 | 16.465 | 16.447 | 16.518 | VV | 38 | 1234 | 0.51% | 0.274% |
| 133 | 16.535 | 16.518 | 16.558 | VV | 35 | 397 | 0.16% | 0.088% |
| 134 | 16.628 | 16.558 | 16.689 | VV | 48 | 1157 | 0.47% | 0.257% |

Sum of corrected areas: 450891

FB062325.M Wed Jul 16 05:55:52 2025

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2514 | **OrderDate:** | 7/3/2025 1:29:00 PM |
| **Client:** | CDM Smith | **Project:** | South River WM Replacement |
| **Contact:** | Marcie Ann Encinas | **Location:** | O21,O22,VOA Lab |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2514-01** | **TP-92** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-02** | **TP-93** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-03** | **TP-94** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-04** | **TP-96** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-05** | **TP-97** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-06** | **TP-103** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-07** | **TP-36** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-08** | **TP-78** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-09** | **TP-81** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-10** | **TP-90** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |

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Fax : 908 789 8922



# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2514 **Order ID:** Q2514

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

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID :** | **TP-93** | | | | | | | |
| Q2514-02 | TP-93 | SOIL | alpha-Chlordane | 0.36 | J | 0.14 | 1.90 | ug/kg |
| Q2514-02 | TP-93 | SOIL | gamma-Chlordane | 0.19 | J | 0.17 | 1.90 | ug/kg |
| | | | **Total Concentration:** | **0.550** | | | | |
| **Client ID :** | **TP-94** | | | | | | | |
| Q2514-03 | TP-94 | SOIL | 4,4-DDE | 0.42 | JP | 0.16 | 1.90 | ug/kg |
| Q2514-03 | TP-94 | SOIL | 4,4-DDT | 0.55 | J | 0.16 | 1.90 | ug/kg |
| | | | **Total Concentration:** | **0.970** | | | | |
| **Client ID :** | **TP-96** | | | | | | | |
| Q2514-04 | TP-96 | SOIL | 4,4-DDT | 0.33 | J | 0.16 | 2.00 | ug/kg |
| | | | **Total Concentration:** | **0.330** | | | | |
| **Client ID :** | **TP-97** | | | | | | | |
| Q2514-05 | TP-97 | SOIL | 4,4-DDT | 0.27 | J | 0.16 | 2.00 | ug/kg |
| | | | **Total Concentration:** | **0.270** | | | | |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 87.4 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 |
|---|---|---|---|---|
| PD089360.D | 1 | 07/07/25 08:30 | 07/07/25 17:56 | PB168736 |

| 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 | 0.21 | U | 0.21 | 1.90 | ug/kg |
| 319-86-8 | delta-BHC | 0.45 | U | 0.45 | 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 | 0.22 | U | 0.22 | 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 | 0.22 | U | 0.22 | 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 | 6.20 | U | 6.20 | 37.7 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 8.74 | | 20 - 144 | 44% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 18.2 | | 19 - 148 | 91% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 87.4 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 |
|---|---|---|---|---|
| PD089360.D | 1 | 07/07/25 08:30 | 07/07/25 17:56 | PB168736 |

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

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 87.7 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 |
|---|---|---|---|---|
| PD089363.D | 1 | 07/07/25 08:30 | 07/07/25 18:37 | PB168736 |

| 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 | 0.21 | U | 0.21 | 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 | 0.22 | U | 0.22 | 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 | 0.22 | U | 0.22 | 1.90 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.42 | U | 0.42 | 1.90 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.36 | J | 0.14 | 1.90 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.19 | J | 0.17 | 1.90 | ug/kg |
| 8001-35-2 | Toxaphene | 6.20 | U | 6.20 | 37.6 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 8.37 | | 20 - 144 | 42% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 11.9 | | 19 - 148 | 60% | SPK: 20 |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 87.7 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 |
|---|---|---|---|---|
| PD089363.D | 1 | 07/07/25 08:30 | 07/07/25 18:37 | PB168736 |

| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 88.1 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 |
|---|---|---|---|---|
| PD089364.D | 1 | 07/07/25 08:30 | 07/07/25 18:51 | PB168736 |

| 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 | 0.22 | U | 0.22 | 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 | 0.42 | JP | 0.16 | 1.90 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 1.90 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.33 | 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 | 0.55 | J | 0.16 | 1.90 | ug/kg |
| 72-43-5 | Methoxychlor | 0.42 | U | 0.42 | 1.90 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.22 | U | 0.22 | 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 | 37.4 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 10.8 | | 20 - 144 | 54% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 18.7 | | 19 - 148 | 94% | SPK: 20 |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 88.1 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 |
|---|---|---|---|---|
| PD089364.D | 1 | 07/07/25 08:30 | 07/07/25 18:51 | PB168736 |

| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 85.8 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 |
|---|---|---|---|---|
| PD089365.D | 1 | 07/07/25 08:30 | 07/07/25 19:04 | PB168736 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.15 | U | 0.15 | 2.00 | ug/kg |
| 319-85-7 | beta-BHC | 0.21 | U | 0.21 | 2.00 | ug/kg |
| 319-86-8 | delta-BHC | 0.45 | U | 0.45 | 2.00 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 76-44-8 | Heptachlor | 0.14 | U | 0.14 | 2.00 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 2.00 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.22 | U | 0.22 | 2.00 | ug/kg |
| 959-98-8 | Endosulfan I | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 60-57-1 | Dieldrin | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.34 | 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 | 0.33 | J | 0.16 | 2.00 | ug/kg |
| 72-43-5 | Methoxychlor | 0.43 | U | 0.43 | 2.00 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.22 | U | 0.22 | 2.00 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.43 | U | 0.43 | 2.00 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.14 | U | 0.14 | 2.00 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.17 | U | 0.17 | 2.00 | ug/kg |
| 8001-35-2 | Toxaphene | 6.30 | U | 6.30 | 38.4 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 8.21 | | 20 - 144 | 41% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 12.2 | | 19 - 148 | 61% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 85.8 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 |
|---|---|---|---|---|
| PD089365.D | 1 | 07/07/25 08:30 | 07/07/25 19:04 | PB168736 |

| 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
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J = Estimated Value
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 85 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 |
|---|---|---|---|---|
| PD089366.D | 1 | 07/07/25 08:30 | 07/07/25 19:18 | PB168736 |

| 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 | 0.27 | J | 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 | 38.8 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 13.1 | | 20 - 144 | 66% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 17.0 | | 19 - 148 | 85% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 85 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 |
|---|---|---|---|---|
| PD089366.D | 1 | 07/07/25 08:30 | 07/07/25 19:18 | PB168736 |

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

Comments:

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* = Values outside of QC 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: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 86.5 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 |
|---|---|---|---|---|
| PD089370.D | 1 | 07/07/25 08:30 | 07/07/25 20:41 | PB168736 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.15 | U | 0.15 | 2.00 | ug/kg |
| 319-85-7 | beta-BHC | 0.21 | U | 0.21 | 2.00 | ug/kg |
| 319-86-8 | delta-BHC | 0.45 | U | 0.45 | 2.00 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 76-44-8 | Heptachlor | 0.14 | U | 0.14 | 2.00 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 2.00 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.22 | U | 0.22 | 2.00 | ug/kg |
| 959-98-8 | Endosulfan I | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 60-57-1 | Dieldrin | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.33 | U | 0.33 | 2.00 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.17 | U | 0.17 | 2.00 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.15 | U | 0.15 | 2.00 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 72-43-5 | Methoxychlor | 0.43 | U | 0.43 | 2.00 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.22 | U | 0.22 | 2.00 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.43 | U | 0.43 | 2.00 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.14 | U | 0.14 | 2.00 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.17 | U | 0.17 | 2.00 | ug/kg |
| 8001-35-2 | Toxaphene | 6.20 | U | 6.20 | 38.1 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 11.4 | | 20 - 144 | 57% | 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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 86.5 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 |
|---|---|---|---|---|
| PD089370.D | 1 | 07/07/25 08:30 | 07/07/25 20:41 | PB168736 |

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

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
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() = Laboratory InHouse Limit

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 90.3 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PD089371.D | 1 | 07/07/25 08:30 | 07/07/25 20:54 | PB168736 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.14 | U | 0.14 | 1.90 | ug/kg |
| 319-85-7 | beta-BHC | 0.20 | U | 0.20 | 1.90 | ug/kg |
| 319-86-8 | delta-BHC | 0.43 | U | 0.43 | 1.90 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 76-44-8 | Heptachlor | 0.13 | U | 0.13 | 1.90 | ug/kg |
| 309-00-2 | Aldrin | 0.13 | U | 0.13 | 1.90 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.21 | U | 0.21 | 1.90 | ug/kg |
| 959-98-8 | Endosulfan I | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 72-20-8 | Endrin | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.32 | U | 0.32 | 1.90 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.17 | U | 0.17 | 1.90 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.14 | U | 0.14 | 1.90 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 72-43-5 | Methoxychlor | 0.41 | U | 0.41 | 1.90 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.21 | U | 0.21 | 1.90 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.41 | U | 0.41 | 1.90 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.13 | U | 0.13 | 1.90 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.17 | U | 0.17 | 1.90 | ug/kg |
| 8001-35-2 | Toxaphene | 6.00 | U | 6.00 | 36.5 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 13.1 | | 20 - 144 | 66% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 18.7 | | 19 - 148 | 93% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 90.3 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PD089371.D | 1 | 07/07/25 08:30 | 07/07/25 20:54 | PB168736 |

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

Comments:

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 86.3 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 |
|---|---|---|---|---|
| PD089372.D | 1 | 07/07/25 08:30 | 07/07/25 21:08 | PB168736 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.15 | U | 0.15 | 2.00 | ug/kg |
| 319-85-7 | beta-BHC | 0.21 | U | 0.21 | 2.00 | ug/kg |
| 319-86-8 | delta-BHC | 0.45 | U | 0.45 | 2.00 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 76-44-8 | Heptachlor | 0.14 | U | 0.14 | 2.00 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 2.00 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.22 | U | 0.22 | 2.00 | ug/kg |
| 959-98-8 | Endosulfan I | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 60-57-1 | Dieldrin | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.34 | 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 | 0.14 | U | 0.14 | 2.00 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.17 | U | 0.17 | 2.00 | ug/kg |
| 8001-35-2 | Toxaphene | 6.30 | U | 6.30 | 38.1 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 9.06 | | 20 - 144 | 45% | 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: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 86.3 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 |
|---|---|---|---|---|
| PD089372.D | 1 | 07/07/25 08:30 | 07/07/25 21:08 | PB168736 |

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

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 86.3 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 |
|---|---|---|---|---|
| PD089373.D | 1 | 07/07/25 08:30 | 07/07/25 21:22 | PB168736 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.15 | U | 0.15 | 2.00 | ug/kg |
| 319-85-7 | beta-BHC | 0.21 | U | 0.21 | 2.00 | ug/kg |
| 319-86-8 | delta-BHC | 0.45 | U | 0.45 | 2.00 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 76-44-8 | Heptachlor | 0.14 | U | 0.14 | 2.00 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 2.00 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.22 | U | 0.22 | 2.00 | ug/kg |
| 959-98-8 | Endosulfan I | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 60-57-1 | Dieldrin | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 2.00 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.34 | 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 | 0.14 | U | 0.14 | 2.00 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.17 | U | 0.17 | 2.00 | ug/kg |
| 8001-35-2 | Toxaphene | 6.30 | U | 6.30 | 38.2 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 8.25 | | 20 - 144 | 41% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 16.7 | | 19 - 148 | 84% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 86.3 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 |
|---|---|---|---|---|
| PD089373.D | 1 | 07/07/25 08:30 | 07/07/25 21:22 | PB168736 |

| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 91.6 Decanted: |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PD089374.D | 1 | 07/07/25 08:30 | 07/07/25 21:35 | PB168736 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.14 | U | 0.14 | 1.90 | ug/kg |
| 319-85-7 | beta-BHC | 0.20 | U | 0.20 | 1.90 | ug/kg |
| 319-86-8 | delta-BHC | 0.43 | U | 0.43 | 1.90 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 76-44-8 | Heptachlor | 0.13 | U | 0.13 | 1.90 | ug/kg |
| 309-00-2 | Aldrin | 0.13 | U | 0.13 | 1.90 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.21 | U | 0.21 | 1.90 | ug/kg |
| 959-98-8 | Endosulfan I | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 72-20-8 | Endrin | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.32 | U | 0.32 | 1.90 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.16 | U | 0.16 | 1.90 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.14 | U | 0.14 | 1.90 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 72-43-5 | Methoxychlor | 0.40 | U | 0.40 | 1.90 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.21 | U | 0.21 | 1.90 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.40 | U | 0.40 | 1.90 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.13 | U | 0.13 | 1.90 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.16 | U | 0.16 | 1.90 | ug/kg |
| 8001-35-2 | Toxaphene | 5.90 | U | 5.90 | 36.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 10.9 | | 20 - 144 | 55% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 13.6 | | 19 - 148 | 68% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 91.6 Decanted: |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PD089374.D | 1 | 07/07/25 08:30 | 07/07/25 21:35 | PB168736 |

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

Comments:

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

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

# QC SUMMARY

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Fax : 908 789 8922



## Surrogate Summary

**SDG No.:** Q2514

**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-PD089340.D | PIBLK-PD089340.D | Decachlorobiphen | 1 | 20 | 20.0 | 100 | | 57 | 171 |
| | | Tetrachloro-m-xyl | 1 | 20 | 18.7 | 93 | | 61 | 148 |
| | | Decachlorobiphen | 2 | 20 | 20.0 | 100 | | 57 | 171 |
| | | Tetrachloro-m-xyl | 2 | 20 | 21.2 | 106 | | 61 | 148 |
| PB168736BL | PB168736BL | Decachlorobiphen | 1 | 20 | 15.4 | 77 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 16.9 | 85 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 14.1 | 71 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 19.8 | 99 | | 19 | 148 |
| PB168736BS | PB168736BS | Decachlorobiphen | 1 | 20 | 15.8 | 79 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 16.3 | 81 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 14.9 | 75 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 19.8 | 99 | | 19 | 148 |
| I.BLK-PD089356.D | PIBLK-PD089356.D | Decachlorobiphen | 1 | 20 | 17.9 | 89 | | 57 | 171 |
| | | Tetrachloro-m-xyl | 1 | 20 | 19.0 | 95 | | 61 | 148 |
| | | Decachlorobiphen | 2 | 20 | 16.4 | 82 | | 57 | 171 |
| | | Tetrachloro-m-xyl | 2 | 20 | 22.2 | 111 | | 61 | 148 |
| Q2514-01 | TP-92 | Decachlorobiphen | 1 | 20 | 8.74 | 44 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 16.2 | 81 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 6.43 | 32 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 18.2 | 91 | | 19 | 148 |
| Q2514-01MS | TP-92MS | Decachlorobiphen | 1 | 20 | 13.6 | 68 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 18.8 | 94 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 10.3 | 52 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 21.6 | 108 | | 19 | 148 |
| Q2514-01MSD | TP-92MSD | Decachlorobiphen | 1 | 20 | 13.9 | 69 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 19.3 | 96 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 10.8 | 54 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 21.2 | 106 | | 19 | 148 |
| Q2514-02 | TP-93 | Decachlorobiphen | 1 | 20 | 8.37 | 42 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 10.5 | 52 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 7.36 | 37 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 11.9 | 60 | | 19 | 148 |
| Q2514-03 | TP-94 | Decachlorobiphen | 1 | 20 | 10.8 | 54 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 17.5 | 88 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 9.10 | 46 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 18.7 | 94 | | 19 | 148 |
| Q2514-04 | TP-96 | Decachlorobiphen | 1 | 20 | 8.21 | 41 | | 20 | 144 |

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## Surrogate Summary

**SDG No.:** Q2514

**Client:** CDM Smith

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Recovery(%) | Qual | Limits(%) Low | Limits(%) High |
|---|---|---|---|---|---|---|---|---|---|
| Q2514-04 | TP-96 | Tetrachloro-m-xyl | 1 | 20 | 11.0 | 55 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 7.29 | 36 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 12.2 | 61 | | 19 | 148 |
| Q2514-05 | TP-97 | Decachlorobiphen | 1 | 20 | 13.1 | 66 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 15.4 | 77 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 9.75 | 49 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 17.0 | 85 | | 19 | 148 |
| I.BLK-PD089367.D | PIBLK-PD089367.D | Decachlorobiphen | 1 | 20 | 17.4 | 87 | | 57 | 171 |
| | | Tetrachloro-m-xyl | 1 | 20 | 19.1 | 96 | | 61 | 148 |
| | | Decachlorobiphen | 2 | 20 | 14.8 | 74 | | 57 | 171 |
| | | Tetrachloro-m-xyl | 2 | 20 | 21.8 | 109 | | 61 | 148 |
| Q2514-06 | TP-103 | Decachlorobiphen | 1 | 20 | 11.4 | 57 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 18.1 | 91 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 10.5 | 53 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 18.0 | 90 | | 19 | 148 |
| Q2514-07 | TP-36 | Decachlorobiphen | 1 | 20 | 13.1 | 66 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 16.9 | 85 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 12.5 | 63 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 18.7 | 93 | | 19 | 148 |
| Q2514-08 | TP-78 | Decachlorobiphen | 1 | 20 | 9.06 | 45 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 14.9 | 74 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 8.93 | 45 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 16.6 | 83 | | 19 | 148 |
| Q2514-09 | TP-81 | Decachlorobiphen | 1 | 20 | 8.25 | 41 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 15.2 | 76 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 7.73 | 39 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 16.7 | 84 | | 19 | 148 |
| Q2514-10 | TP-90 | Decachlorobiphen | 1 | 20 | 10.9 | 55 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 1 | 20 | 12.0 | 60 | | 19 | 148 |
| | | Decachlorobiphen | 2 | 20 | 10.2 | 51 | | 20 | 144 |
| | | Tetrachloro-m-xyl | 2 | 20 | 13.6 | 68 | | 19 | 148 |
| I.BLK-PD089376.D | PIBLK-PD089376.D | Decachlorobiphen | 1 | 20 | 18.2 | 91 | | 57 | 171 |
| | | Tetrachloro-m-xyl | 1 | 20 | 19.1 | 96 | | 61 | 148 |
| | | Decachlorobiphen | 2 | 20 | 16.9 | 85 | | 57 | 171 |
| | | Tetrachloro-m-xyl | 2 | 20 | 22.4 | 112 | | 61 | 148 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** 8081B

**Client:** CDM Smith **DataFile :** PD089361.D

| | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** | **Q2514-01MS (Column 1)** | **Client Sample ID:** | | **TP-92MS** | | | | | | | | |
| | alpha-BHC | 19.05 | 0 | 16.0 | ug/kg | 84 | | | | 60 | 144 | |
| | beta-BHC | 19.05 | 0 | 15.8 | ug/kg | 83 | | | | 54 | 143 | |
| | delta-BHC | 19.05 | 0 | 16.9 | ug/kg | 89 | | | | 29 | 151 | |
| | gamma-BHC (Lindane) | 19.05 | 0 | 16.3 | ug/kg | 86 | | | | 61 | 140 | |
| | Heptachlor | 19.05 | 0 | 15.5 | ug/kg | 81 | | | | 63 | 135 | |
| | Aldrin | 19.05 | 0 | 15.2 | ug/kg | 80 | | | | 49 | 139 | |
| | Heptachlor epoxide | 19.05 | 0 | 14.3 | ug/kg | 75 | | | | 41 | 156 | |
| | Endosulfan I | 19.05 | 0 | 14.0 | ug/kg | 73 | | | | 56 | 142 | |
| | Dieldrin | 19.05 | 0 | 13.4 | ug/kg | 70 | | | | 47 | 161 | |
| | 4,4'-DDE | 19.05 | 0 | 13.7 | ug/kg | 72 | | | | 55 | 136 | |
| | Endrin | 19.05 | 0 | 13.6 | ug/kg | 71 | | | | 57 | 139 | |
| | Endosulfan II | 19.05 | 0 | 13.2 | ug/kg | 69 | | | | 40 | 163 | |
| | 4,4'-DDD | 19.05 | 0 | 13.0 | ug/kg | 68 | | | | 47 | 163 | |
| | Endosulfan sulfate | 19.05 | 0 | 12.9 | ug/kg | 68 | | | | 62 | 139 | |
| | 4,4'-DDT | 19.05 | 0 | 12.2 | ug/kg | 64 | | | | 51 | 146 | |
| | Methoxychlor | 19.05 | 0 | 11.1 | ug/kg | 58 | | | | 54 | 136 | |
| | Endrin ketone | 19.05 | 0 | 12.2 | ug/kg | 64 | | | | 60 | 129 | |
| | Endrin aldehyde | 19.05 | 0 | 12.8 | ug/kg | 67 | | | | 59 | 132 | |
| | alpha-Chlordane | 19.05 | 0 | 13.9 | ug/kg | 73 | | | | 39 | 166 | |
| | gamma-Chlordane | 19.05 | 0 | 13.9 | ug/kg | 73 | | | | 44 | 175 | |
| **Lab Sample ID:** | **Q2514-01MS (Column 2)** | **Client Sample ID:** | | **TP-92MS** | | | | | | | | |
| | alpha-BHC | 19.05 | 0 | 17.9 | ug/kg | 94 | | | | 60 | 144 | |
| | beta-BHC | 19.05 | 0 | 17.4 | ug/kg | 91 | | | | 54 | 143 | |
| | delta-BHC | 19.05 | 0 | 17.1 | ug/kg | 90 | | | | 29 | 151 | |
| | gamma-BHC (Lindane) | 19.05 | 0 | 17.8 | ug/kg | 93 | | | | 61 | 140 | |
| | Heptachlor | 19.05 | 0 | 17.2 | ug/kg | 90 | | | | 63 | 135 | |
| | Aldrin | 19.05 | 0 | 17.1 | ug/kg | 90 | | | | 49 | 139 | |
| | Heptachlor epoxide | 19.05 | 0 | 16.4 | ug/kg | 86 | | | | 41 | 156 | |
| | Endosulfan I | 19.05 | 0 | 15.8 | ug/kg | 83 | | | | 56 | 142 | |
| | Dieldrin | 19.05 | 0 | 14.9 | ug/kg | 78 | | | | 47 | 161 | |
| | 4,4'-DDE | 19.05 | 0 | 15.4 | ug/kg | 81 | | | | 55 | 136 | |
| | Endrin | 19.05 | 0 | 14.0 | ug/kg | 73 | | | | 57 | 139 | |
| | Endosulfan II | 19.05 | 0 | 13.0 | ug/kg | 68 | | | | 40 | 163 | |
| | 4,4'-DDD | 19.05 | 0 | 12.9 | ug/kg | 68 | | | | 47 | 163 | |
| | Endosulfan sulfate | 19.05 | 0 | 13.0 | ug/kg | 68 | | | | 62 | 139 | |

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Fax : 908 789 8922



## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** 8081B

**Client:** CDM Smith **DataFile :** PD089361.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 19.05 | 0 | 12.9 | ug/kg | 68 | | | | 51 | 146 | |
| Methoxychlor | 19.05 | 0 | 12.1 | ug/kg | 64 | | | | 54 | 136 | |
| Endrin ketone | 19.05 | 0 | 11.2 | ug/kg | 59 | | | | 60 | 129 | |
| Endrin aldehyde | 19.05 | 0 | 12.8 | ug/kg | 67 | | | | 59 | 132 | |
| alpha-Chlordane | 19.05 | 0 | 15.6 | ug/kg | 82 | | | | 39 | 166 | |
| gamma-Chlordane | 19.05 | 0 | 15.7 | ug/kg | 82 | | | | 44 | 175 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** 8081B

**Client:** CDM Smith **DataFile :** PD089362.D

| | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** | **Q2514-01MSD (Column 1)** | **Client Sample ID:** | | **TP-92MSD** | | | | | | | | |
| | alpha-BHC | 19.03 | 0 | 16.4 | ug/kg | 86 | | 2 | | 60 | 144 | 20 |
| | beta-BHC | 19.03 | 0 | 15.8 | ug/kg | 83 | | 0 | | 54 | 143 | 20 |
| | delta-BHC | 19.03 | 0 | 17.6 | ug/kg | 92 | | 3 | | 29 | 151 | 20 |
| | gamma-BHC (Lindane) | 19.03 | 0 | 16.3 | ug/kg | 86 | | 0 | | 61 | 140 | 20 |
| | Heptachlor | 19.03 | 0 | 16.3 | ug/kg | 86 | | 6 | | 63 | 135 | 20 |
| | Aldrin | 19.03 | 0 | 15.7 | ug/kg | 83 | | 4 | | 49 | 139 | 20 |
| | Heptachlor epoxide | 19.03 | 0 | 14.7 | ug/kg | 77 | | 3 | | 41 | 156 | 20 |
| | Endosulfan I | 19.03 | 0 | 14.5 | ug/kg | 76 | | 4 | | 56 | 142 | 20 |
| | Dieldrin | 19.03 | 0 | 13.8 | ug/kg | 73 | | 4 | | 47 | 161 | 20 |
| | 4,4'-DDE | 19.03 | 0 | 14.0 | ug/kg | 74 | | 3 | | 55 | 136 | 20 |
| | Endrin | 19.03 | 0 | 14.0 | ug/kg | 74 | | 4 | | 57 | 139 | 20 |
| | Endosulfan II | 19.03 | 0 | 13.3 | ug/kg | 70 | | 1 | | 40 | 163 | 20 |
| | 4,4'-DDD | 19.03 | 0 | 13.4 | ug/kg | 70 | | 3 | | 47 | 163 | 20 |
| | Endosulfan sulfate | 19.03 | 0 | 12.6 | ug/kg | 66 | | 3 | | 62 | 139 | 20 |
| | 4,4'-DDT | 19.03 | 0 | 12.8 | ug/kg | 67 | | 5 | | 51 | 146 | 20 |
| | Methoxychlor | 19.03 | 0 | 12.1 | ug/kg | 64 | | 10 | | 54 | 136 | 20 |
| | Endrin ketone | 19.03 | 0 | 12.6 | ug/kg | 66 | | 3 | | 60 | 129 | 20 |
| | Endrin aldehyde | 19.03 | 0 | 13.5 | ug/kg | 71 | | 6 | | 59 | 132 | 20 |
| | alpha-Chlordane | 19.03 | 0 | 14.5 | ug/kg | 76 | | 4 | | 39 | 166 | 20 |
| | gamma-Chlordane | 19.03 | 0 | 14.7 | ug/kg | 77 | | 5 | | 44 | 175 | 20 |
| **Lab Sample ID:** | **Q2514-01MSD (Column 2)** | **Client Sample ID:** | | **TP-92MSD** | | | | | | | | |
| | alpha-BHC | 19.03 | 0 | 17.9 | ug/kg | 94 | | 0 | | 60 | 144 | 20 |
| | beta-BHC | 19.03 | 0 | 17.7 | ug/kg | 93 | | 2 | | 54 | 143 | 20 |
| | delta-BHC | 19.03 | 0 | 17.3 | ug/kg | 91 | | 1 | | 29 | 151 | 20 |
| | gamma-BHC (Lindane) | 19.03 | 0 | 17.9 | ug/kg | 94 | | 1 | | 61 | 140 | 20 |
| | Heptachlor | 19.03 | 0 | 17.4 | ug/kg | 91 | | 1 | | 63 | 135 | 20 |
| | Aldrin | 19.03 | 0 | 17.4 | ug/kg | 91 | | 1 | | 49 | 139 | 20 |
| | Heptachlor epoxide | 19.03 | 0 | 16.9 | ug/kg | 89 | | 3 | | 41 | 156 | 20 |
| | Endosulfan I | 19.03 | 0 | 16.9 | ug/kg | 89 | | 7 | | 56 | 142 | 20 |
| | Dieldrin | 19.03 | 0 | 15.3 | ug/kg | 80 | | 3 | | 47 | 161 | 20 |
| | 4,4'-DDE | 19.03 | 0 | 16.1 | ug/kg | 85 | | 5 | | 55 | 136 | 20 |
| | Endrin | 19.03 | 0 | 14.8 | ug/kg | 78 | | 7 | | 57 | 139 | 20 |
| | Endosulfan II | 19.03 | 0 | 13.9 | ug/kg | 73 | | 7 | | 40 | 163 | 20 |
| | 4,4'-DDD | 19.03 | 0 | 13.7 | ug/kg | 72 | | 6 | | 47 | 163 | 20 |
| | Endosulfan sulfate | 19.03 | 0 | 13.6 | ug/kg | 71 | | 4 | | 62 | 139 | 20 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** 8081B

**Client:** CDM Smith **DataFile :** PD089362.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT | 19.03 | 0 | 14.0 | ug/kg | 74 | | 8 | | 51 | 146 | 20 |
| Methoxychlor | 19.03 | 0 | 13.0 | ug/kg | 68 | | 6 | | 54 | 136 | 20 |
| Endrin ketone | 19.03 | 0 | 12.2 | ug/kg | 64 | | 8 | | 60 | 129 | 20 |
| Endrin aldehyde | 19.03 | 0 | 13.6 | ug/kg | 71 | | 6 | | 59 | 132 | 20 |
| alpha-Chlordane | 19.03 | 0 | 16.6 | ug/kg | 87 | | 6 | | 39 | 166 | 20 |
| gamma-Chlordane | 19.03 | 0 | 16.1 | ug/kg | 85 | | 4 | | 44 | 175 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** 8081B

**Client:** CDM Smith **Datafile :** PD089354.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168736BS (Column 1) | alpha-BHC | 16.65 | 17.9 | ug/kg | 108 | | | | 84 | 123 | |
| | beta-BHC | 16.65 | 17.0 | ug/kg | 102 | | | | 82 | 123 | |
| | delta-BHC | 16.65 | 18.7 | ug/kg | 112 | | | | 83 | 126 | |
| | gamma-BHC (Lindane) | 16.65 | 17.8 | ug/kg | 107 | | | | 83 | 125 | |
| | Heptachlor | 16.65 | 17.9 | ug/kg | 108 | | | | 83 | 122 | |
| | Aldrin | 16.65 | 17.6 | ug/kg | 106 | | | | 82 | 124 | |
| | Heptachlor epoxide | 16.65 | 17.1 | ug/kg | 103 | | | | 83 | 120 | |
| | Endosulfan I | 16.65 | 16.8 | ug/kg | 101 | | | | 81 | 124 | |
| | Dieldrin | 16.65 | 16.6 | ug/kg | 100 | | | | 85 | 121 | |
| | 4,4'-DDE | 16.65 | 16.0 | ug/kg | 96 | | | | 81 | 123 | |
| | Endrin | 16.65 | 16.4 | ug/kg | 98 | | | | 76 | 130 | |
| | Endosulfan II | 16.65 | 16.6 | ug/kg | 100 | | | | 80 | 125 | |
| | 4,4'-DDD | 16.65 | 16.3 | ug/kg | 98 | | | | 80 | 131 | |
| | Endosulfan sulfate | 16.65 | 15.8 | ug/kg | 95 | | | | 81 | 122 | |
| | 4,4'-DDT | 16.65 | 16.0 | ug/kg | 96 | | | | 70 | 129 | |
| | Methoxychlor | 16.65 | 14.6 | ug/kg | 88 | | | | 60 | 119 | |
| | Endrin ketone | 16.65 | 15.4 | ug/kg | 92 | | | | 77 | 132 | |
| | Endrin aldehyde | 16.65 | 16.1 | ug/kg | 97 | | | | 79 | 124 | |
| | alpha-Chlordane | 16.65 | 16.8 | ug/kg | 101 | | | | 84 | 120 | |
| | gamma-Chlordane | 16.65 | 16.9 | ug/kg | 102 | | | | 83 | 122 | |
| PB168736BS (Column 2) | alpha-BHC | 16.65 | 18.8 | ug/kg | 113 | | | | 84 | 123 | |
| | beta-BHC | 16.65 | 18.3 | ug/kg | 110 | | | | 82 | 123 | |
| | delta-BHC | 16.65 | 18.9 | ug/kg | 114 | | | | 83 | 126 | |
| | gamma-BHC (Lindane) | 16.65 | 18.8 | ug/kg | 113 | | | | 83 | 125 | |
| | Heptachlor | 16.65 | 18.6 | ug/kg | 112 | | | | 83 | 122 | |
| | Aldrin | 16.65 | 18.8 | ug/kg | 113 | | | | 82 | 124 | |
| | Heptachlor epoxide | 16.65 | 19.0 | ug/kg | 114 | | | | 83 | 120 | |
| | Endosulfan I | 16.65 | 18.7 | ug/kg | 112 | | | | 81 | 124 | |
| | Dieldrin | 16.65 | 18.1 | ug/kg | 109 | | | | 85 | 121 | |
| | 4,4'-DDE | 16.65 | 18.3 | ug/kg | 110 | | | | 81 | 123 | |
| | Endrin | 16.65 | 17.4 | ug/kg | 105 | | | | 76 | 130 | |
| | Endosulfan II | 16.65 | 17.4 | ug/kg | 105 | | | | 80 | 125 | |
| | 4,4'-DDD | 16.65 | 17.6 | ug/kg | 106 | | | | 80 | 131 | |
| | Endosulfan sulfate | 16.65 | 16.7 | ug/kg | 100 | | | | 81 | 122 | |
| | 4,4'-DDT | 16.65 | 17.2 | ug/kg | 103 | | | | 70 | 129 | |
| | Methoxychlor | 16.65 | 15.9 | ug/kg | 95 | | | | 60 | 119 | |
| | Endrin ketone | 16.65 | 15.8 | ug/kg | 95 | | | | 77 | 132 | |
| | Endrin aldehyde | 16.65 | 16.9 | ug/kg | 102 | | | | 79 | 124 | |
| | alpha-Chlordane | 16.65 | 18.5 | ug/kg | 111 | | | | 84 | 120 | |
| | gamma-Chlordane | 16.65 | 18.6 | ug/kg | 112 | | | | 83 | 122 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168736BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2514

Lab Sample ID: PB168736BL | Lab File ID: PD089353.D

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

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/07/2025

Date Analyzed (1): 07/07/2025 | Date Analyzed (2): 07/07/2025

Time Analyzed (1): 15:07 | Time Analyzed (2): 15:07

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 |
|---|---|---|---|---|
| PB168736BS | PB168736BS | PD089354.D | 07/07/2025 | 07/07/2025 |
| TP-92 | Q2514-01 | PD089360.D | 07/07/2025 | 07/07/2025 |
| TP-92MS | Q2514-01MS | PD089361.D | 07/07/2025 | 07/07/2025 |
| TP-92MSD | Q2514-01MSD | PD089362.D | 07/07/2025 | 07/07/2025 |
| TP-93 | Q2514-02 | PD089363.D | 07/07/2025 | 07/07/2025 |
| TP-94 | Q2514-03 | PD089364.D | 07/07/2025 | 07/07/2025 |
| TP-96 | Q2514-04 | PD089365.D | 07/07/2025 | 07/07/2025 |
| TP-97 | Q2514-05 | PD089366.D | 07/07/2025 | 07/07/2025 |
| TP-103 | Q2514-06 | PD089370.D | 07/07/2025 | 07/07/2025 |
| TP-36 | Q2514-07 | PD089371.D | 07/07/2025 | 07/07/2025 |
| TP-78 | Q2514-08 | PD089372.D | 07/07/2025 | 07/07/2025 |
| TP-81 | Q2514-09 | PD089373.D | 07/07/2025 | 07/07/2025 |
| TP-90 | Q2514-10 | PD089374.D | 07/07/2025 | 07/07/2025 |

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: | PB168736BL | SDG No.: | Q2514 |
| Lab Sample ID: | PB168736BL | 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 |
|---|---|---|---|---|
| PD089353.D | 1 | 07/07/25 08:30 | 07/07/25 15:07 | PB168736 |

| 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 | 15.4 | | 20 - 144 | 77% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.8 | | 19 - 148 | 99% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | PB168736BL | SDG No.: | Q2514 |
| Lab Sample ID: | PB168736BL | 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 |
|---|---|---|---|---|
| PD089353.D | 1 | 07/07/25 08:30 | 07/07/25 15:07 | PB168736 |

| 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.: | Q2514 |
| 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.: | Q2514 |
| Lab Sample ID: | I.BLK-PD088990.D | Matrix: | WATER |
| Analytical Method: | 8081B | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

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

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

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/07/25 |
| Project: | South River WM Replacement | Date Received: | 07/07/25 |
| Client Sample ID: | PIBLK-PD089340.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PD089340.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 |
|---|---|---|---|---|
| PD089340.D | 1 | | 07/07/25 | Pd070725 |

| 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 | 20.0 | | 57 - 171 | 100% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.2 | | 61 - 148 | 106% | SPK: 20 |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/07/25 |
| Project: | South River WM Replacement | Date Received: | 07/07/25 |
| Client Sample ID: | PIBLK-PD089340.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PD089340.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 |
|---|---|---|---|---|
| PD089340.D | 1 | | 07/07/25 | Pd070725 |

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

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/07/25 |
| Project: | South River WM Replacement | Date Received: | 07/07/25 |
| Client Sample ID: | PIBLK-PD089356.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PD089356.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 |
|---|---|---|---|---|
| PD089356.D | 1 | | 07/07/25 | pd070725 |

| 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 | 17.9 | | 57 - 171 | 89% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.2 | | 61 - 148 | 111% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/07/25 |
| Project: | South River WM Replacement | Date Received: | 07/07/25 |
| Client Sample ID: | PIBLK-PD089356.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PD089356.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 |
|---|---|---|---|---|
| PD089356.D | 1 | | 07/07/25 | pd070725 |

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

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/07/25 |
| Project: | South River WM Replacement | Date Received: | 07/07/25 |
| Client Sample ID: | PIBLK-PD089367.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PD089367.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 |
|---|---|---|---|---|
| PD089367.D | 1 | | 07/07/25 | pd070725 |

| 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 | 17.4 | | 57 - 171 | 87% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.8 | | 61 - 148 | 109% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/07/25 |
| Project: | South River WM Replacement | Date Received: | 07/07/25 |
| Client Sample ID: | PIBLK-PD089367.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PD089367.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 |
|---|---|---|---|---|
| PD089367.D | 1 | | 07/07/25 | pd070725 |

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

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/07/25 |
| Project: | South River WM Replacement | Date Received: | 07/07/25 |
| Client Sample ID: | PIBLK-PD089376.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PD089376.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 |
|---|---|---|---|---|
| PD089376.D | 1 | | 07/07/25 | pd070725 |

| 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 | 18.2 | | 57 - 171 | 91% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.4 | | 61 - 148 | 112% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/07/25 |
| Project: | South River WM Replacement | Date Received: | 07/07/25 |
| Client Sample ID: | PIBLK-PD089376.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PD089376.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 |
|---|---|---|---|---|
| PD089376.D | 1 | | 07/07/25 | pd070725 |

| 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: | PB168736BS | SDG No.: | Q2514 |
| Lab Sample ID: | PB168736BS | 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 |
|---|---|---|---|---|
| PD089354.D | 1 | 07/07/25 08:30 | 07/07/25 15:44 | PB168736 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 18.8 | | 0.13 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 18.3 | | 0.18 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 18.9 | | 0.39 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 18.8 | | 0.14 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 18.6 | | 0.12 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 18.8 | | 0.12 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 19.0 | | 0.19 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 18.7 | | 0.14 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 18.1 | | 0.14 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 18.3 | | 0.14 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 17.4 | | 0.14 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 17.4 | | 0.29 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 17.6 | | 0.15 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 16.7 | | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 17.2 | | 0.14 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 15.9 | | 0.37 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 15.8 | | 0.19 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 16.9 | | 0.37 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 18.5 | | 0.12 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 18.6 | | 0.15 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.40 | U | 5.40 | 33.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 15.8 | | 20 - 144 | 79% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.8 | | 19 - 148 | 99% | SPK: 20 |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | PB168736BS | SDG No.: | Q2514 |
| Lab Sample ID: | PB168736BS | 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 |
|---|---|---|---|---|
| PD089354.D | 1 | 07/07/25 08:30 | 07/07/25 15:44 | PB168736 |

| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92MS | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01MS | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 87.4 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PD089361.D | 1 | 07/07/25 08:30 | 07/07/25 18:10 | PB168736 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 17.9 | | 0.15 | 1.90 | ug/kg |
| 319-85-7 | beta-BHC | 17.4 | | 0.21 | 1.90 | ug/kg |
| 319-86-8 | delta-BHC | 17.1 | | 0.45 | 1.90 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 17.8 | | 0.16 | 1.90 | ug/kg |
| 76-44-8 | Heptachlor | 17.2 | | 0.14 | 1.90 | ug/kg |
| 309-00-2 | Aldrin | 17.1 | | 0.14 | 1.90 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 16.4 | | 0.22 | 1.90 | ug/kg |
| 959-98-8 | Endosulfan I | 15.8 | | 0.16 | 1.90 | ug/kg |
| 60-57-1 | Dieldrin | 14.9 | | 0.16 | 1.90 | ug/kg |
| 72-55-9 | 4,4-DDE | 15.4 | | 0.16 | 1.90 | ug/kg |
| 72-20-8 | Endrin | 14.0 | | 0.16 | 1.90 | ug/kg |
| 33213-65-9 | Endosulfan II | 13.2 | | 0.33 | 1.90 | ug/kg |
| 72-54-8 | 4,4-DDD | 13.0 | | 0.17 | 1.90 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 13.0 | | 0.15 | 1.90 | ug/kg |
| 50-29-3 | 4,4-DDT | 12.9 | | 0.16 | 1.90 | ug/kg |
| 72-43-5 | Methoxychlor | 12.1 | | 0.42 | 1.90 | ug/kg |
| 53494-70-5 | Endrin ketone | 12.2 | | 0.22 | 1.90 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 12.8 | | 0.42 | 1.90 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 15.6 | | 0.14 | 1.90 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 15.7 | | 0.17 | 1.90 | ug/kg |
| 8001-35-2 | Toxaphene | 6.20 | U | 6.20 | 37.7 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 13.6 | | 20 - 144 | 68% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.6 | | 19 - 148 | 108% | SPK: 20 |

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92MS | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01MS | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 87.4 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PD089361.D | 1 | 07/07/25 08:30 | 07/07/25 18:10 | PB168736 |

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

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92MSD | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01MSD | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 87.4 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 |
|---|---|---|---|---|
| PD089362.D | 1 | 07/07/25 08:30 | 07/07/25 18:23 | PB168736 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 17.9 | | 0.15 | 1.90 | ug/kg |
| 319-85-7 | beta-BHC | 17.7 | | 0.21 | 1.90 | ug/kg |
| 319-86-8 | delta-BHC | 17.6 | | 0.45 | 1.90 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 17.9 | | 0.16 | 1.90 | ug/kg |
| 76-44-8 | Heptachlor | 17.4 | | 0.14 | 1.90 | ug/kg |
| 309-00-2 | Aldrin | 17.4 | | 0.14 | 1.90 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 16.9 | | 0.22 | 1.90 | ug/kg |
| 959-98-8 | Endosulfan I | 16.9 | | 0.16 | 1.90 | ug/kg |
| 60-57-1 | Dieldrin | 15.3 | | 0.16 | 1.90 | ug/kg |
| 72-55-9 | 4,4-DDE | 16.1 | | 0.16 | 1.90 | ug/kg |
| 72-20-8 | Endrin | 14.8 | | 0.16 | 1.90 | ug/kg |
| 33213-65-9 | Endosulfan II | 13.9 | | 0.33 | 1.90 | ug/kg |
| 72-54-8 | 4,4-DDD | 13.7 | | 0.17 | 1.90 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 13.6 | | 0.15 | 1.90 | ug/kg |
| 50-29-3 | 4,4-DDT | 14.0 | | 0.16 | 1.90 | ug/kg |
| 72-43-5 | Methoxychlor | 13.0 | | 0.42 | 1.90 | ug/kg |
| 53494-70-5 | Endrin ketone | 12.6 | | 0.22 | 1.90 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 13.6 | | 0.42 | 1.90 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 16.6 | | 0.14 | 1.90 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 16.1 | | 0.17 | 1.90 | ug/kg |
| 8001-35-2 | Toxaphene | 6.20 | U | 6.20 | 37.7 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 13.9 | | 20 - 144 | 69% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.2 | | 19 - 148 | 106% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92MSD | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01MSD | Matrix: | SOIL |
| Analytical Method: | 8081B | % Solid: | 87.4 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 |
|---|---|---|---|---|
| PD089362.D | 1 | 07/07/25 08:30 | 07/07/25 18:23 | PB168736 |

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

# CALIBRATION SUMMARY

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## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_D
**Contract:** CAMP02
**SDG NO.:** Q2514
**Calibration Date(s):** 06/17/2025 06/17/2025
**Calibration Times:** 15:52 16:47

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

**LAB FILE ID:** RT 100 = PD088993.D RT 075 = PD088994.D
RT 050 = PD088995.D RT 025 = PD088996.D RT 005 = PD088997.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.71 | 6.70 | 6.71 | 6.70 | 6.70 | 6.70 | 6.60 | 6.80 |
| 4,4'-DDE | 6.20 | 6.20 | 6.20 | 6.20 | 6.19 | 6.20 | 6.10 | 6.30 |
| 4,4'-DDT | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 6.92 | 7.12 |
| Aldrin | 5.27 | 5.27 | 5.27 | 5.27 | 5.27 | 5.27 | 5.17 | 5.37 |
| alpha-BHC | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 3.90 | 4.10 |
| alpha-Chlordane | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 5.93 | 6.13 |
| beta-BHC | 4.52 | 4.52 | 4.52 | 4.52 | 4.52 | 4.51 | 4.41 | 4.61 |
| Decachlorobiphenyl | 9.07 | 9.07 | 9.07 | 9.07 | 9.07 | 9.07 | 8.97 | 9.17 |
| delta-BHC | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.66 | 4.86 |
| Dieldrin | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 | 6.25 | 6.45 |
| Endosulfan I | 6.07 | 6.07 | 6.08 | 6.07 | 6.07 | 6.07 | 5.97 | 6.17 |
| Endosulfan II | 6.79 | 6.79 | 6.79 | 6.79 | 6.79 | 6.79 | 6.69 | 6.89 |
| Endosulfan sulfate | 7.15 | 7.15 | 7.15 | 7.15 | 7.15 | 7.15 | 7.05 | 7.25 |
| Endrin | 6.57 | 6.57 | 6.58 | 6.57 | 6.57 | 6.57 | 6.47 | 6.67 |
| Endrin aldehyde | 6.92 | 6.91 | 6.92 | 6.91 | 6.91 | 6.91 | 6.81 | 7.01 |
| Endrin ketone | 7.63 | 7.63 | 7.63 | 7.63 | 7.63 | 7.63 | 7.53 | 7.73 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.23 | 4.43 |
| gamma-Chlordane | 5.95 | 5.95 | 5.95 | 5.95 | 5.95 | 5.95 | 5.85 | 6.05 |
| Heptachlor | 4.93 | 4.93 | 4.93 | 4.93 | 4.93 | 4.93 | 4.83 | 5.03 |
| Heptachlor epoxide | 5.69 | 5.69 | 5.69 | 5.69 | 5.69 | 5.69 | 5.59 | 5.79 |
| Methoxychlor | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.49 | 7.39 | 7.59 |
| Tetrachloro-m-xylene | 3.55 | 3.55 | 3.55 | 3.55 | 3.55 | 3.55 | 3.45 | 3.65 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_D
**Contract:** CAMP02
**SDG NO.:** Q2514
**Calibration Date(s):** 06/17/2025 06/17/2025
**Calibration Times:** 15:52 16:47

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

**LAB FILE ID:** RT 100 = PD088993.D RT 075 = PD088994.D
RT 050 = PD088995.D RT 025 = PD088996.D RT 005 = PD088997.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.93 | 5.93 | 5.93 | 5.93 | 5.93 | 5.93 | 5.83 | 6.03 |
| 4,4'-DDE | 5.38 | 5.38 | 5.38 | 5.38 | 5.38 | 5.38 | 5.28 | 5.48 |
| 4,4'-DDT | 6.18 | 6.18 | 6.18 | 6.18 | 6.18 | 6.18 | 6.08 | 6.28 |
| Aldrin | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.27 | 4.47 |
| alpha-BHC | 3.39 | 3.39 | 3.39 | 3.39 | 3.39 | 3.39 | 3.29 | 3.49 |
| alpha-Chlordane | 5.19 | 5.19 | 5.19 | 5.19 | 5.19 | 5.19 | 5.09 | 5.29 |
| beta-BHC | 4.03 | 4.03 | 4.03 | 4.03 | 4.03 | 4.03 | 3.93 | 4.13 |
| Decachlorobiphenyl | 8.07 | 8.07 | 8.07 | 8.07 | 8.07 | 8.07 | 7.97 | 8.17 |
| delta-BHC | 4.26 | 4.26 | 4.26 | 4.26 | 4.26 | 4.26 | 4.16 | 4.36 |
| Dieldrin | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 | 5.51 | 5.41 | 5.61 |
| Endosulfan I | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.25 | 5.15 | 5.35 |
| Endosulfan II | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 5.98 | 6.18 |
| Endosulfan sulfate | 6.48 | 6.48 | 6.48 | 6.48 | 6.48 | 6.48 | 6.38 | 6.58 |
| Endrin | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | 5.69 | 5.89 |
| Endrin aldehyde | 6.26 | 6.26 | 6.26 | 6.26 | 6.26 | 6.26 | 6.16 | 6.36 |
| Endrin ketone | 6.99 | 6.99 | 6.99 | 6.99 | 6.99 | 6.99 | 6.89 | 7.09 |
| gamma-BHC (Lindane) | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.63 | 3.83 |
| gamma-Chlordane | 5.13 | 5.13 | 5.13 | 5.13 | 5.13 | 5.13 | 5.03 | 5.23 |
| Heptachlor | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 3.98 | 4.18 |
| Heptachlor epoxide | 4.87 | 4.87 | 4.87 | 4.87 | 4.87 | 4.87 | 4.77 | 4.97 |
| Methoxychlor | 6.76 | 6.75 | 6.76 | 6.75 | 6.75 | 6.75 | 6.65 | 6.85 |
| Tetrachloro-m-xylene | 2.88 | 2.88 | 2.88 | 2.88 | 2.88 | 2.88 | 2.78 | 2.98 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

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

**Contract:** CAMP02
**SDG NO.:** Q2514
**Calibration Date(s):** 06/17/2025 06/17/2025
**Calibration Times:** 15:52 16:47

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

**LAB FILE ID:** **CF 100 =** PD088993.D **CF 075 =** PD088994.D
**CF 050 =** PD088995.D **CF 025 =** PD088996.D **CF 005 =** PD088997.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 3557450000 | 3439230000 | 3414120000 | 3228670000 | 3520780000 | 3432050000 | 4 |
| 4,4'-DDE | 4564130000 | 4401240000 | 4312380000 | 4092310000 | 4435110000 | 4361030000 | 4 |
| 4,4'-DDT | 3928430000 | 3802000000 | 3763430000 | 3580670000 | 3866490000 | 3788210000 | 3 |
| Aldrin | 5504150000 | 5312640000 | 5254800000 | 4989300000 | 5504000000 | 5312980000 | 4 |
| alpha-BHC | 6295370000 | 6031790000 | 5874750000 | 5417910000 | 5525530000 | 5829070000 | 6 |
| alpha-Chlordane | 4885060000 | 4758900000 | 4734630000 | 4584390000 | 5229700000 | 4838540000 | 5 |
| beta-BHC | 2136750000 | 2100860000 | 2137680000 | 2144670000 | 2515730000 | 2207140000 | 8 |
| Decachlorobiphenyl | 3598890000 | 3628150000 | 3773200000 | 3897960000 | 4739940000 | 3927630000 | 12 |
| delta-BHC | 5546280000 | 5292010000 | 5182350000 | 4751190000 | 4892690000 | 5132900000 | 6 |
| Dieldrin | 4933650000 | 4797080000 | 4750270000 | 4527510000 | 4978810000 | 4797470000 | 4 |
| Endosulfan I | 4511200000 | 4405770000 | 4412600000 | 4289200000 | 4918470000 | 4507450000 | 5 |
| Endosulfan II | 3829260000 | 3982180000 | 4002080000 | 3816490000 | 4553000000 | 4036600000 | 7 |
| Endosulfan sulfate | 3786900000 | 3718160000 | 3741600000 | 3667440000 | 4271990000 | 3837220000 | 6 |
| Endrin | 4238140000 | 4109540000 | 4096430000 | 3878120000 | 4305700000 | 4125590000 | 4 |
| Endrin aldehyde | 2964260000 | 2935670000 | 2964230000 | 2966830000 | 3488720000 | 3063940000 | 8 |
| Endrin ketone | 4050100000 | 3970810000 | 4004900000 | 3895960000 | 4443590000 | 4073070000 | 5 |
| gamma-BHC (Lindane) | 5900830000 | 5686510000 | 5566590000 | 5221690000 | 5532800000 | 5581680000 | 4 |
| gamma-Chlordane | 4869330000 | 4801300000 | 4716110000 | 4508810000 | 5045020000 | 4788110000 | 4 |
| Heptachlor | 5621840000 | 5429540000 | 5358570000 | 5116310000 | 5733550000 | 5451960000 | 4 |
| Heptachlor epoxide | 4794850000 | 4673610000 | 4749650000 | 4554690000 | 5346870000 | 4823940000 | 6 |
| Methoxychlor | 1926110000 | 1918890000 | 1971480000 | 1982080000 | 2304580000 | 2020630000 | 8 |
| Tetrachloro-m-xylene | 2812300000 | 2762040000 | 2767280000 | 2751820000 | 3172230000 | 2853130000 | 6 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

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

**Contract:** CAMP02
**SDG NO.:** Q2514
**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

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**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

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Instrument ID:** ECD_D **Date(s) Analyzed:** 06/17/2025 06/17/2025

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

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Toxaphene | 500 | 1 | 5.47 | 5.37 | 5.57 | 158160000 |
| | | 2 | 5.65 | 5.55 | 5.75 | 108820000 |
| | | 3 | 6.76 | 6.66 | 6.86 | 511856000 |
| | | 4 | 7.20 | 7.10 | 7.30 | 350145000 |
| | | 5 | 7.33 | 7.23 | 7.43 | 253920000 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/07/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

**Continuing Calib Time:** 12:02 **Initial Calibration Time(s):** 15:52 16:47

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.07 | 9.07 | 8.97 | 9.17 | 0.00 |
| Tetrachloro-m-xylene | 3.55 | 3.55 | 3.45 | 3.65 | 0.00 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.00 |
| beta-BHC | 4.51 | 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 | 6.78 | 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 | 5.94 | 5.95 | 5.85 | 6.05 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/07/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

**Continuing Calib Time:** 12:02 **Initial Calibration Time(s):** 15:52 16:47

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.07 | 8.07 | 7.97 | 8.17 | 0.00 |
| Tetrachloro-m-xylene | 2.88 | 2.88 | 2.78 | 2.98 | 0.00 |
| alpha-BHC | 3.39 | 3.39 | 3.29 | 3.49 | 0.00 |
| beta-BHC | 4.02 | 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

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

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

**Client Sample No.:** CCAL01 **Date Analyzed:** 07/07/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD089342.D **Time Analyzed:** 12:02

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.703 | 6.605 | 6.805 | 54.480 | 50.000 | 9.0 |
| 4,4'-DDE | 6.194 | 6.096 | 6.296 | 55.240 | 50.000 | 10.5 |
| 4,4'-DDT | 7.019 | 6.921 | 7.121 | 53.300 | 50.000 | 6.6 |
| Aldrin | 5.269 | 5.171 | 5.371 | 55.040 | 50.000 | 10.1 |
| alpha-BHC | 3.998 | 3.899 | 4.099 | 55.940 | 50.000 | 11.9 |
| alpha-Chlordane | 6.025 | 5.927 | 6.127 | 54.700 | 50.000 | 9.4 |
| beta-BHC | 4.514 | 4.415 | 4.615 | 53.810 | 50.000 | 7.6 |
| Decachlorobiphenyl | 9.070 | 8.972 | 9.172 | 48.860 | 50.000 | -2.3 |
| delta-BHC | 4.763 | 4.664 | 4.864 | 58.660 | 50.000 | 17.3 |
| Dieldrin | 6.345 | 6.247 | 6.447 | 55.330 | 50.000 | 10.7 |
| Endosulfan I | 6.072 | 5.975 | 6.175 | 54.990 | 50.000 | 10.0 |
| Endosulfan II | 6.784 | 6.686 | 6.886 | 55.210 | 50.000 | 10.4 |
| Endosulfan sulfate | 7.148 | 7.049 | 7.249 | 51.710 | 50.000 | 3.4 |
| Endrin | 6.573 | 6.475 | 6.675 | 54.450 | 50.000 | 8.9 |
| Endrin aldehyde | 6.913 | 6.815 | 7.015 | 53.140 | 50.000 | 6.3 |
| Endrin ketone | 7.628 | 7.530 | 7.730 | 50.910 | 50.000 | 1.8 |
| gamma-BHC (Lindane) | 4.329 | 4.230 | 4.430 | 55.630 | 50.000 | 11.3 |
| gamma-Chlordane | 5.944 | 5.846 | 6.046 | 55.390 | 50.000 | 10.8 |
| Heptachlor | 4.928 | 4.829 | 5.029 | 55.190 | 50.000 | 10.4 |
| Heptachlor epoxide | 5.689 | 5.591 | 5.791 | 54.230 | 50.000 | 8.5 |
| Methoxychlor | 7.491 | 7.393 | 7.593 | 49.120 | 50.000 | -1.8 |
| Tetrachloro-m-xylene | 3.549 | 3.450 | 3.650 | 53.260 | 50.000 | 6.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

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

**Client Sample No.:** CCAL01 **Date Analyzed:** 07/07/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD089342.D **Time Analyzed:** 12:02

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.928 | 5.830 | 6.030 | 53.560 | 50.000 | 7.1 |
| 4,4'-DDE | 5.373 | 5.275 | 5.475 | 57.030 | 50.000 | 14.1 |
| 4,4'-DDT | 6.181 | 6.084 | 6.284 | 56.700 | 50.000 | 13.4 |
| Aldrin | 4.367 | 4.269 | 4.469 | 56.710 | 50.000 | 13.4 |
| alpha-BHC | 3.392 | 3.293 | 3.493 | 56.500 | 50.000 | 13.0 |
| alpha-Chlordane | 5.187 | 5.091 | 5.291 | 56.030 | 50.000 | 12.1 |
| beta-BHC | 4.024 | 3.926 | 4.126 | 55.510 | 50.000 | 11.0 |
| Decachlorobiphenyl | 8.070 | 7.972 | 8.172 | 49.450 | 50.000 | -1.1 |
| delta-BHC | 4.261 | 4.162 | 4.362 | 56.520 | 50.000 | 13.0 |
| Dieldrin | 5.511 | 5.413 | 5.613 | 56.420 | 50.000 | 12.8 |
| Endosulfan I | 5.245 | 5.147 | 5.347 | 58.470 | 50.000 | 16.9 |
| Endosulfan II | 6.078 | 5.981 | 6.181 | 56.080 | 50.000 | 12.2 |
| Endosulfan sulfate | 6.480 | 6.383 | 6.583 | 55.240 | 50.000 | 10.5 |
| Endrin | 5.787 | 5.689 | 5.889 | 55.490 | 50.000 | 11.0 |
| Endrin aldehyde | 6.257 | 6.159 | 6.359 | 55.170 | 50.000 | 10.3 |
| Endrin ketone | 6.989 | 6.892 | 7.092 | 53.700 | 50.000 | 7.4 |
| gamma-BHC (Lindane) | 3.727 | 3.630 | 3.830 | 56.510 | 50.000 | 13.0 |
| gamma-Chlordane | 5.122 | 5.026 | 5.226 | 55.920 | 50.000 | 11.8 |
| Heptachlor | 4.081 | 3.983 | 4.183 | 55.880 | 50.000 | 11.8 |
| Heptachlor epoxide | 4.869 | 4.773 | 4.973 | 56.040 | 50.000 | 12.1 |
| Methoxychlor | 6.752 | 6.655 | 6.855 | 52.880 | 50.000 | 5.8 |
| Tetrachloro-m-xylene | 2.880 | 2.780 | 2.980 | 55.560 | 50.000 | 11.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/07/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

**Continuing Calib Time:** 16:27 **Initial Calibration Time(s):** 15:52 16:47

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.07 | 9.07 | 8.97 | 9.17 | 0.00 |
| Tetrachloro-m-xylene | 3.55 | 3.55 | 3.45 | 3.65 | 0.00 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.00 |
| beta-BHC | 4.52 | 4.52 | 4.42 | 4.62 | 0.00 |
| delta-BHC | 4.76 | 4.76 | 4.66 | 4.86 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.93 | 4.93 | 4.83 | 5.03 | 0.00 |
| Aldrin | 5.27 | 5.27 | 5.17 | 5.37 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.69 | 5.59 | 5.79 | 0.00 |
| Endosulfan I | 6.07 | 6.08 | 5.98 | 6.18 | 0.01 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.00 |
| 4,4'-DDE | 6.20 | 6.20 | 6.10 | 6.30 | 0.00 |
| Endrin | 6.57 | 6.58 | 6.48 | 6.68 | 0.01 |
| Endosulfan II | 6.79 | 6.79 | 6.69 | 6.89 | 0.01 |
| 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

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/07/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

**Continuing Calib Time:** 16:27 **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 | 0.00 |
| Dieldrin | 5.51 | 5.51 | 5.41 | 5.61 | 0.00 |
| 4,4'-DDE | 5.37 | 5.38 | 5.28 | 5.48 | 0.01 |
| Endrin | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan II | 6.08 | 6.08 | 5.98 | 6.18 | 0.00 |
| 4,4'-DDD | 5.93 | 5.93 | 5.83 | 6.03 | 0.00 |
| Endosulfan sulfate | 6.48 | 6.48 | 6.38 | 6.58 | 0.00 |
| 4,4'-DDT | 6.18 | 6.18 | 6.08 | 6.28 | 0.00 |
| Methoxychlor | 6.75 | 6.76 | 6.66 | 6.86 | 0.01 |
| Endrin ketone | 6.99 | 6.99 | 6.89 | 7.09 | 0.00 |
| Endrin aldehyde | 6.26 | 6.26 | 6.16 | 6.36 | 0.00 |
| alpha-Chlordane | 5.19 | 5.19 | 5.09 | 5.29 | 0.00 |
| gamma-Chlordane | 5.12 | 5.13 | 5.03 | 5.23 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

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

**Client Sample No.:** CCAL02 **Date Analyzed:** 07/07/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD089357.D **Time Analyzed:** 16:27

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.704 | 6.605 | 6.805 | 48.940 | 50.000 | -2.1 |
| 4,4'-DDE | 6.195 | 6.096 | 6.296 | 50.220 | 50.000 | 0.4 |
| 4,4'-DDT | 7.020 | 6.921 | 7.121 | 47.060 | 50.000 | -5.9 |
| Aldrin | 5.270 | 5.171 | 5.371 | 54.180 | 50.000 | 8.4 |
| alpha-BHC | 3.999 | 3.899 | 4.099 | 56.080 | 50.000 | 12.2 |
| alpha-Chlordane | 6.026 | 5.927 | 6.127 | 50.810 | 50.000 | 1.6 |
| beta-BHC | 4.516 | 4.415 | 4.615 | 53.080 | 50.000 | 6.2 |
| Decachlorobiphenyl | 9.072 | 8.972 | 9.172 | 43.590 | 50.000 | -12.8 |
| delta-BHC | 4.764 | 4.664 | 4.864 | 58.220 | 50.000 | 16.4 |
| Dieldrin | 6.346 | 6.247 | 6.447 | 50.000 | 50.000 | 0.0 |
| Endosulfan I | 6.073 | 5.975 | 6.175 | 50.940 | 50.000 | 1.9 |
| Endosulfan II | 6.785 | 6.686 | 6.886 | 49.670 | 50.000 | -0.7 |
| Endosulfan sulfate | 7.149 | 7.049 | 7.249 | 46.970 | 50.000 | -6.1 |
| Endrin | 6.574 | 6.475 | 6.675 | 49.200 | 50.000 | -1.6 |
| Endrin aldehyde | 6.914 | 6.815 | 7.015 | 47.240 | 50.000 | -5.5 |
| Endrin ketone | 7.629 | 7.530 | 7.730 | 45.600 | 50.000 | -8.8 |
| gamma-BHC (Lindane) | 4.330 | 4.230 | 4.430 | 55.350 | 50.000 | 10.7 |
| gamma-Chlordane | 5.945 | 5.846 | 6.046 | 51.850 | 50.000 | 3.7 |
| Heptachlor | 4.929 | 4.829 | 5.029 | 54.900 | 50.000 | 9.8 |
| Heptachlor epoxide | 5.690 | 5.591 | 5.791 | 51.600 | 50.000 | 3.2 |
| Methoxychlor | 7.492 | 7.393 | 7.593 | 43.830 | 50.000 | -12.3 |
| Tetrachloro-m-xylene | 3.550 | 3.450 | 3.650 | 53.260 | 50.000 | 6.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

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

**Client Sample No.:** CCAL02 **Date Analyzed:** 07/07/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD089357.D **Time Analyzed:** 16:27

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.928 | 5.830 | 6.030 | 49.790 | 50.000 | -0.4 |
| 4,4'-DDE | 5.374 | 5.275 | 5.475 | 55.190 | 50.000 | 10.4 |
| 4,4'-DDT | 6.183 | 6.084 | 6.284 | 51.090 | 50.000 | 2.2 |
| Aldrin | 4.368 | 4.269 | 4.469 | 57.050 | 50.000 | 14.1 |
| alpha-BHC | 3.393 | 3.293 | 3.493 | 57.530 | 50.000 | 15.1 |
| alpha-Chlordane | 5.189 | 5.091 | 5.291 | 56.760 | 50.000 | 13.5 |
| beta-BHC | 4.024 | 3.926 | 4.126 | 56.260 | 50.000 | 12.5 |
| Decachlorobiphenyl | 8.071 | 7.972 | 8.172 | 40.430 | 50.000 | -19.1 |
| delta-BHC | 4.261 | 4.162 | 4.362 | 57.120 | 50.000 | 14.2 |
| Dieldrin | 5.512 | 5.413 | 5.613 | 54.450 | 50.000 | 8.9 |
| Endosulfan I | 5.246 | 5.147 | 5.347 | 57.500 | 50.000 | 15.0 |
| Endosulfan II | 6.079 | 5.981 | 6.181 | 51.350 | 50.000 | 2.7 |
| Endosulfan sulfate | 6.481 | 6.383 | 6.583 | 50.300 | 50.000 | 0.6 |
| Endrin | 5.788 | 5.689 | 5.889 | 52.730 | 50.000 | 5.5 |
| Endrin aldehyde | 6.257 | 6.159 | 6.359 | 50.160 | 50.000 | 0.3 |
| Endrin ketone | 6.990 | 6.892 | 7.092 | 46.390 | 50.000 | -7.2 |
| gamma-BHC (Lindane) | 3.729 | 3.630 | 3.830 | 56.490 | 50.000 | 13.0 |
| gamma-Chlordane | 5.123 | 5.026 | 5.226 | 54.860 | 50.000 | 9.7 |
| Heptachlor | 4.082 | 3.983 | 4.183 | 56.540 | 50.000 | 13.1 |
| Heptachlor epoxide | 4.870 | 4.773 | 4.973 | 56.040 | 50.000 | 12.1 |
| Methoxychlor | 6.753 | 6.655 | 6.855 | 47.310 | 50.000 | -5.4 |
| Tetrachloro-m-xylene | 2.881 | 2.780 | 2.980 | 56.880 | 50.000 | 13.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/07/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

**Continuing Calib Time:** 19:59 **Initial Calibration Time(s):** 15:52 16:47

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.07 | 9.07 | 8.97 | 9.17 | 0.00 |
| Tetrachloro-m-xylene | 3.55 | 3.55 | 3.45 | 3.65 | 0.00 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.00 |
| beta-BHC | 4.52 | 4.52 | 4.42 | 4.62 | 0.01 |
| 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

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/07/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

**Continuing Calib Time:** 19:59 **Initial Calibration Time(s):** 15:52 16:47

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.07 | 8.07 | 7.97 | 8.17 | 0.00 |
| Tetrachloro-m-xylene | 2.88 | 2.88 | 2.78 | 2.98 | 0.00 |
| alpha-BHC | 3.39 | 3.39 | 3.29 | 3.49 | 0.00 |
| beta-BHC | 4.03 | 4.03 | 3.93 | 4.13 | 0.00 |
| delta-BHC | 4.26 | 4.26 | 4.16 | 4.36 | 0.00 |
| gamma-BHC (Lindane) | 3.73 | 3.73 | 3.63 | 3.83 | 0.00 |
| Heptachlor | 4.08 | 4.08 | 3.98 | 4.18 | 0.00 |
| Aldrin | 4.37 | 4.37 | 4.27 | 4.47 | 0.00 |
| Heptachlor epoxide | 4.87 | 4.87 | 4.77 | 4.97 | 0.00 |
| Endosulfan I | 5.25 | 5.25 | 5.15 | 5.35 | 0.00 |
| Dieldrin | 5.51 | 5.51 | 5.41 | 5.61 | 0.00 |
| 4,4'-DDE | 5.37 | 5.38 | 5.28 | 5.48 | 0.01 |
| Endrin | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan II | 6.08 | 6.08 | 5.98 | 6.18 | 0.00 |
| 4,4'-DDD | 5.93 | 5.93 | 5.83 | 6.03 | 0.00 |
| Endosulfan sulfate | 6.48 | 6.48 | 6.38 | 6.58 | 0.00 |
| 4,4'-DDT | 6.18 | 6.18 | 6.08 | 6.28 | 0.00 |
| Methoxychlor | 6.75 | 6.76 | 6.66 | 6.86 | 0.01 |
| Endrin ketone | 6.99 | 6.99 | 6.89 | 7.09 | 0.00 |
| Endrin aldehyde | 6.26 | 6.26 | 6.16 | 6.36 | 0.00 |
| alpha-Chlordane | 5.19 | 5.19 | 5.09 | 5.29 | 0.00 |
| gamma-Chlordane | 5.12 | 5.13 | 5.03 | 5.23 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

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

**Client Sample No.:** CCAL03 **Date Analyzed:** 07/07/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD089369.D **Time Analyzed:** 19:59

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.704 | 6.605 | 6.805 | 49.530 | 50.000 | -0.9 |
| 4,4'-DDE | 6.195 | 6.096 | 6.296 | 51.310 | 50.000 | 2.6 |
| 4,4'-DDT | 7.020 | 6.921 | 7.121 | 46.530 | 50.000 | -6.9 |
| Aldrin | 5.270 | 5.171 | 5.371 | 55.470 | 50.000 | 10.9 |
| alpha-BHC | 3.999 | 3.899 | 4.099 | 57.030 | 50.000 | 14.1 |
| alpha-Chlordane | 6.026 | 5.927 | 6.127 | 51.570 | 50.000 | 3.1 |
| beta-BHC | 4.515 | 4.415 | 4.615 | 54.330 | 50.000 | 8.7 |
| Decachlorobiphenyl | 9.071 | 8.972 | 9.172 | 42.700 | 50.000 | -14.6 |
| delta-BHC | 4.763 | 4.664 | 4.864 | 59.780 | 50.000 | 19.6 |
| Dieldrin | 6.346 | 6.247 | 6.447 | 52.020 | 50.000 | 4.0 |
| Endosulfan I | 6.073 | 5.975 | 6.175 | 51.910 | 50.000 | 3.8 |
| Endosulfan II | 6.785 | 6.686 | 6.886 | 49.910 | 50.000 | -0.2 |
| Endosulfan sulfate | 7.148 | 7.049 | 7.249 | 46.690 | 50.000 | -6.6 |
| Endrin | 6.573 | 6.475 | 6.675 | 50.500 | 50.000 | 1.0 |
| Endrin aldehyde | 6.913 | 6.815 | 7.015 | 47.100 | 50.000 | -5.8 |
| Endrin ketone | 7.629 | 7.530 | 7.730 | 45.350 | 50.000 | -9.3 |
| gamma-BHC (Lindane) | 4.330 | 4.230 | 4.430 | 56.620 | 50.000 | 13.2 |
| gamma-Chlordane | 5.945 | 5.846 | 6.046 | 52.480 | 50.000 | 5.0 |
| Heptachlor | 4.929 | 4.829 | 5.029 | 56.020 | 50.000 | 12.0 |
| Heptachlor epoxide | 5.690 | 5.591 | 5.791 | 52.430 | 50.000 | 4.9 |
| Methoxychlor | 7.492 | 7.393 | 7.593 | 44.220 | 50.000 | -11.6 |
| Tetrachloro-m-xylene | 3.550 | 3.450 | 3.650 | 54.050 | 50.000 | 8.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

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

**Client Sample No.:** CCAL03 **Date Analyzed:** 07/07/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD089369.D **Time Analyzed:** 19:59

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.929 | 5.830 | 6.030 | 51.220 | 50.000 | 2.4 |
| 4,4'-DDE | 5.374 | 5.275 | 5.475 | 56.600 | 50.000 | 13.2 |
| 4,4'-DDT | 6.183 | 6.084 | 6.284 | 52.240 | 50.000 | 4.5 |
| Aldrin | 4.368 | 4.269 | 4.469 | 58.350 | 50.000 | 16.7 |
| alpha-BHC | 3.393 | 3.293 | 3.493 | 58.820 | 50.000 | 17.6 |
| alpha-Chlordane | 5.189 | 5.091 | 5.291 | 58.480 | 50.000 | 17.0 |
| beta-BHC | 4.025 | 3.926 | 4.126 | 56.960 | 50.000 | 13.9 |
| Decachlorobiphenyl | 8.070 | 7.972 | 8.172 | 40.250 | 50.000 | -19.5 |
| delta-BHC | 4.261 | 4.162 | 4.362 | 58.390 | 50.000 | 16.8 |
| Dieldrin | 5.512 | 5.413 | 5.613 | 55.870 | 50.000 | 11.7 |
| Endosulfan I | 5.246 | 5.147 | 5.347 | 59.210 | 50.000 | 18.4 |
| Endosulfan II | 6.079 | 5.981 | 6.181 | 52.960 | 50.000 | 5.9 |
| Endosulfan sulfate | 6.481 | 6.383 | 6.583 | 51.740 | 50.000 | 3.5 |
| Endrin | 5.788 | 5.689 | 5.889 | 54.820 | 50.000 | 9.6 |
| Endrin aldehyde | 6.258 | 6.159 | 6.359 | 50.860 | 50.000 | 1.7 |
| Endrin ketone | 6.990 | 6.892 | 7.092 | 47.030 | 50.000 | -5.9 |
| gamma-BHC (Lindane) | 3.728 | 3.630 | 3.830 | 58.890 | 50.000 | 17.8 |
| gamma-Chlordane | 5.123 | 5.026 | 5.226 | 56.390 | 50.000 | 12.8 |
| Heptachlor | 4.082 | 3.983 | 4.183 | 57.740 | 50.000 | 15.5 |
| Heptachlor epoxide | 4.870 | 4.773 | 4.973 | 58.020 | 50.000 | 16.0 |
| Methoxychlor | 6.753 | 6.655 | 6.855 | 46.840 | 50.000 | -6.3 |
| Tetrachloro-m-xylene | 2.881 | 2.780 | 2.980 | 57.660 | 50.000 | 15.3 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/07/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

**Continuing Calib Time:** 22:17 **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 | 6.78 | 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

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/07/2025 **Initial Calibration Date(s):** 06/17/2025 06/17/2025

**Continuing Calib Time:** 22:17 **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 | 5.24 | 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

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

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

**Client Sample No.:** CCAL04 **Date Analyzed:** 07/07/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD089377.D **Time Analyzed:** 22:17

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.704 | 6.605 | 6.805 | 52.200 | 50.000 | 4.4 |
| 4,4'-DDE | 6.195 | 6.096 | 6.296 | 53.730 | 50.000 | 7.5 |
| 4,4'-DDT | 7.019 | 6.921 | 7.121 | 49.740 | 50.000 | -0.5 |
| Aldrin | 5.270 | 5.171 | 5.371 | 55.820 | 50.000 | 11.6 |
| alpha-BHC | 3.999 | 3.899 | 4.099 | 56.850 | 50.000 | 13.7 |
| alpha-Chlordane | 6.025 | 5.927 | 6.127 | 54.320 | 50.000 | 8.6 |
| beta-BHC | 4.515 | 4.415 | 4.615 | 54.310 | 50.000 | 8.6 |
| Decachlorobiphenyl | 9.071 | 8.972 | 9.172 | 44.530 | 50.000 | -10.9 |
| delta-BHC | 4.763 | 4.664 | 4.864 | 59.660 | 50.000 | 19.3 |
| Dieldrin | 6.346 | 6.247 | 6.447 | 54.060 | 50.000 | 8.1 |
| Endosulfan I | 6.073 | 5.975 | 6.175 | 54.650 | 50.000 | 9.3 |
| Endosulfan II | 6.784 | 6.686 | 6.886 | 52.730 | 50.000 | 5.5 |
| Endosulfan sulfate | 7.147 | 7.049 | 7.249 | 50.060 | 50.000 | 0.1 |
| Endrin | 6.572 | 6.475 | 6.675 | 52.560 | 50.000 | 5.1 |
| Endrin aldehyde | 6.912 | 6.815 | 7.015 | 49.750 | 50.000 | -0.5 |
| Endrin ketone | 7.628 | 7.530 | 7.730 | 48.190 | 50.000 | -3.6 |
| gamma-BHC (Lindane) | 4.329 | 4.230 | 4.430 | 56.570 | 50.000 | 13.1 |
| gamma-Chlordane | 5.945 | 5.846 | 6.046 | 55.030 | 50.000 | 10.1 |
| Heptachlor | 4.928 | 4.829 | 5.029 | 55.670 | 50.000 | 11.3 |
| Heptachlor epoxide | 5.689 | 5.591 | 5.791 | 54.160 | 50.000 | 8.3 |
| Methoxychlor | 7.491 | 7.393 | 7.593 | 45.800 | 50.000 | -8.4 |
| Tetrachloro-m-xylene | 3.550 | 3.450 | 3.650 | 53.920 | 50.000 | 7.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

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

**Client Sample No.:** CCAL04 **Date Analyzed:** 07/07/2025

**Lab Sample No.:** PSTDCCC050 **Data File :** PD089377.D **Time Analyzed:** 22:17

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.928 | 5.830 | 6.030 | 53.580 | 50.000 | 7.2 |
| 4,4'-DDE | 5.373 | 5.275 | 5.475 | 57.860 | 50.000 | 15.7 |
| 4,4'-DDT | 6.182 | 6.084 | 6.284 | 55.170 | 50.000 | 10.3 |
| Aldrin | 4.368 | 4.269 | 4.469 | 58.730 | 50.000 | 17.5 |
| alpha-BHC | 3.393 | 3.293 | 3.493 | 59.330 | 50.000 | 18.7 |
| alpha-Chlordane | 5.189 | 5.091 | 5.291 | 58.970 | 50.000 | 17.9 |
| beta-BHC | 4.025 | 3.926 | 4.126 | 57.770 | 50.000 | 15.5 |
| Decachlorobiphenyl | 8.070 | 7.972 | 8.172 | 42.800 | 50.000 | -14.4 |
| delta-BHC | 4.261 | 4.162 | 4.362 | 58.900 | 50.000 | 17.8 |
| Dieldrin | 5.510 | 5.413 | 5.613 | 57.500 | 50.000 | 15.0 |
| Endosulfan I | 5.244 | 5.147 | 5.347 | 58.000 | 50.000 | 16.0 |
| Endosulfan II | 6.079 | 5.981 | 6.181 | 55.640 | 50.000 | 11.3 |
| Endosulfan sulfate | 6.481 | 6.383 | 6.583 | 54.110 | 50.000 | 8.2 |
| Endrin | 5.788 | 5.689 | 5.889 | 57.670 | 50.000 | 15.3 |
| Endrin aldehyde | 6.257 | 6.159 | 6.359 | 54.140 | 50.000 | 8.3 |
| Endrin ketone | 6.989 | 6.892 | 7.092 | 49.870 | 50.000 | -0.3 |
| gamma-BHC (Lindane) | 3.727 | 3.630 | 3.830 | 59.160 | 50.000 | 18.3 |
| gamma-Chlordane | 5.122 | 5.026 | 5.226 | 57.280 | 50.000 | 14.6 |
| Heptachlor | 4.082 | 3.983 | 4.183 | 58.260 | 50.000 | 16.5 |
| Heptachlor epoxide | 4.870 | 4.773 | 4.973 | 58.620 | 50.000 | 17.2 |
| Methoxychlor | 6.752 | 6.655 | 6.855 | 50.770 | 50.000 | 1.5 |
| Tetrachloro-m-xylene | 2.881 | 2.780 | 2.980 | 58.340 | 50.000 | 16.7 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

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

**Client Sample No. (PEM):** PEM - PD088991.D **Date Analyzed:** 06/17/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 15:25

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.071 | 8.970 | 9.170 | 21.440 | 20.000 | 7.2 |
| Tetrachloro-m-xylene | 3.550 | 3.500 | 3.600 | 19.860 | 20.000 | -0.7 |
| alpha-BHC | 3.999 | 3.950 | 4.050 | 8.970 | 10.000 | -10.3 |
| beta-BHC | 4.514 | 4.460 | 4.560 | 9.720 | 10.000 | -2.8 |
| gamma-BHC (Lindane) | 4.330 | 4.280 | 4.380 | 9.320 | 10.000 | -6.8 |
| Endrin | 6.574 | 6.500 | 6.640 | 50.260 | 50.000 | 0.5 |
| 4,4'-DDT | 7.020 | 6.950 | 7.090 | 100.820 | 100.000 | 0.8 |
| Methoxychlor | 7.493 | 7.420 | 7.560 | 229.880 | 250.000 | -8.0 |

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

**Client Sample No. (PEM):** PEM - PD088991.D **Date Analyzed:** 06/17/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 15:25

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.072 | 7.970 | 8.170 | 21.290 | 20.000 | 6.5 |
| Tetrachloro-m-xylene | 2.880 | 2.830 | 2.930 | 20.440 | 20.000 | 2.2 |
| alpha-BHC | 3.393 | 3.340 | 3.440 | 10.570 | 10.000 | 5.7 |
| beta-BHC | 4.025 | 3.970 | 4.080 | 10.750 | 10.000 | 7.5 |
| gamma-BHC (Lindane) | 3.729 | 3.680 | 3.780 | 10.580 | 10.000 | 5.8 |
| Endrin | 5.789 | 5.720 | 5.860 | 50.490 | 50.000 | 1.0 |
| 4,4'-DDT | 6.183 | 6.110 | 6.250 | 96.080 | 100.000 | -3.9 |
| Methoxychlor | 6.754 | 6.680 | 6.820 | 198.860 | 250.000 | -20.5 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

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

**Client Sample No. (PEM):** PEM - PD089341.D **Date Analyzed:** 07/07/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:48

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.069 | 8.970 | 9.170 | 22.360 | 20.000 | 11.8 |
| Tetrachloro-m-xylene | 3.548 | 3.500 | 3.600 | 22.130 | 20.000 | 10.7 |
| alpha-BHC | 3.998 | 3.950 | 4.050 | 10.370 | 10.000 | 3.7 |
| beta-BHC | 4.514 | 4.460 | 4.560 | 11.480 | 10.000 | 14.8 |
| gamma-BHC (Lindane) | 4.328 | 4.280 | 4.380 | 10.940 | 10.000 | 9.4 |
| Endrin | 6.572 | 6.500 | 6.640 | 56.430 | 50.000 | 12.9 |
| 4,4'-DDT | 7.018 | 6.950 | 7.090 | 108.090 | 100.000 | 8.1 |
| Methoxychlor | 7.491 | 7.420 | 7.560 | 241.700 | 250.000 | -3.3 |

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

**Client Sample No. (PEM):** PEM - PD089341.D **Date Analyzed:** 07/07/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:48

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.070 | 7.970 | 8.170 | 22.270 | 20.000 | 11.4 |
| Tetrachloro-m-xylene | 2.880 | 2.830 | 2.930 | 23.940 | 20.000 | 19.7 |
| alpha-BHC | 3.392 | 3.340 | 3.440 | 12.570 | 10.000 | 25.7 |
| beta-BHC | 4.024 | 3.970 | 4.070 | 12.570 | 10.000 | 25.7 |
| gamma-BHC (Lindane) | 3.727 | 3.680 | 3.780 | 12.430 | 10.000 | 24.3 |
| Endrin | 5.788 | 5.720 | 5.860 | 56.770 | 50.000 | 13.5 |
| 4,4'-DDT | 6.182 | 6.110 | 6.250 | 111.020 | 100.000 | 11.0 |
| Methoxychlor | 6.752 | 6.680 | 6.820 | 217.880 | 250.000 | -12.8 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

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

**Client Sample No. (PEM):** PEM - PD089368.D **Date Analyzed:** 07/07/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 19:46

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.071 | 8.970 | 9.170 | 18.640 | 20.000 | -6.8 |
| Tetrachloro-m-xylene | 3.550 | 3.500 | 3.600 | 22.170 | 20.000 | 10.9 |
| alpha-BHC | 3.999 | 3.950 | 4.050 | 10.380 | 10.000 | 3.8 |
| beta-BHC | 4.515 | 4.460 | 4.570 | 11.320 | 10.000 | 13.2 |
| gamma-BHC (Lindane) | 4.330 | 4.280 | 4.380 | 10.810 | 10.000 | 8.1 |
| Endrin | 6.573 | 6.500 | 6.640 | 50.760 | 50.000 | 1.5 |
| 4,4'-DDT | 7.020 | 6.950 | 7.090 | 93.780 | 100.000 | -6.2 |
| Methoxychlor | 7.492 | 7.420 | 7.560 | 209.510 | 250.000 | -16.2 |

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

**Client Sample No. (PEM):** PEM - PD089368.D **Date Analyzed:** 07/07/2025

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 19:46

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.070 | 7.970 | 8.170 | 17.220 | 20.000 | -13.9 |
| Tetrachloro-m-xylene | 2.881 | 2.830 | 2.930 | 24.710 | 20.000 | 23.6 |
| alpha-BHC | 3.393 | 3.340 | 3.440 | 13.230 | 10.000 | 32.3 |
| beta-BHC | 4.025 | 3.970 | 4.080 | 12.720 | 10.000 | 27.2 |
| gamma-BHC (Lindane) | 3.728 | 3.680 | 3.780 | 12.690 | 10.000 | 26.9 |
| Endrin | 5.788 | 5.720 | 5.860 | 54.990 | 50.000 | 10.0 |
| 4,4'-DDT | 6.182 | 6.110 | 6.250 | 100.920 | 100.000 | 0.9 |
| Methoxychlor | 6.752 | 6.680 | 6.820 | 197.940 | 250.000 | -20.8 |

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# Analytical Sequence

**Client:** CDM Smith **SDG No.:** Q2514

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

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

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

| CLIENT ID | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 06/17/2025 | 15:11 | PD088990.D | 9.07 | 3.55 |
| PEM | PEM | 06/17/2025 | 15:25 | PD088991.D | 9.07 | 3.55 |
| RESCHK | RESCHK | 06/17/2025 | 15:39 | PD088992.D | 9.07 | 3.55 |
| PSTDICC100 | PSTDICC100 | 06/17/2025 | 15:52 | PD088993.D | 9.07 | 3.55 |
| PSTDICC075 | PSTDICC075 | 06/17/2025 | 16:06 | PD088994.D | 9.07 | 3.55 |
| PSTDICC050 | PSTDICC050 | 06/17/2025 | 16:20 | PD088995.D | 9.07 | 3.55 |
| PSTDICC025 | PSTDICC025 | 06/17/2025 | 16:33 | PD088996.D | 9.07 | 3.55 |
| PSTDICC005 | PSTDICC005 | 06/17/2025 | 16:47 | PD088997.D | 9.07 | 3.55 |
| PCHLORICC500 | PCHLORICC500 | 06/17/2025 | 17:28 | PD089000.D | 9.07 | 3.55 |
| PTOXICC500 | PTOXICC500 | 06/17/2025 | 18:36 | PD089005.D | 9.07 | 3.55 |
| I.BLK | I.BLK | 07/07/2025 | 11:34 | PD089340.D | 9.07 | 3.55 |
| PEM | PEM | 07/07/2025 | 11:48 | PD089341.D | 9.07 | 3.55 |
| PSTDCCC050 | PSTDCCC050 | 07/07/2025 | 12:02 | PD089342.D | 9.07 | 3.55 |
| PB168736BL | PB168736BL | 07/07/2025 | 15:07 | PD089353.D | 9.08 | 3.55 |
| PB168736BS | PB168736BS | 07/07/2025 | 15:44 | PD089354.D | 9.08 | 3.55 |
| I.BLK | I.BLK | 07/07/2025 | 16:13 | PD089356.D | 9.07 | 3.55 |
| PSTDCCC050 | PSTDCCC050 | 07/07/2025 | 16:27 | PD089357.D | 9.07 | 3.55 |
| TP-92 | Q2514-01 | 07/07/2025 | 17:56 | PD089360.D | 9.07 | 3.55 |
| TP-92MS | Q2514-01MS | 07/07/2025 | 18:10 | PD089361.D | 9.07 | 3.55 |
| TP-92MSD | Q2514-01MSD | 07/07/2025 | 18:23 | PD089362.D | 9.07 | 3.55 |
| TP-93 | Q2514-02 | 07/07/2025 | 18:37 | PD089363.D | 9.07 | 3.55 |
| TP-94 | Q2514-03 | 07/07/2025 | 18:51 | PD089364.D | 9.07 | 3.55 |
| TP-96 | Q2514-04 | 07/07/2025 | 19:04 | PD089365.D | 9.07 | 3.55 |
| TP-97 | Q2514-05 | 07/07/2025 | 19:18 | PD089366.D | 9.07 | 3.55 |
| I.BLK | I.BLK | 07/07/2025 | 19:32 | PD089367.D | 9.07 | 3.55 |
| PEM | PEM | 07/07/2025 | 19:46 | PD089368.D | 9.07 | 3.55 |
| PSTDCCC050 | PSTDCCC050 | 07/07/2025 | 19:59 | PD089369.D | 9.07 | 3.55 |
| TP-103 | Q2514-06 | 07/07/2025 | 20:41 | PD089370.D | 9.07 | 3.55 |
| TP-36 | Q2514-07 | 07/07/2025 | 20:54 | PD089371.D | 9.07 | 3.55 |
| TP-78 | Q2514-08 | 07/07/2025 | 21:08 | PD089372.D | 9.07 | 3.55 |
| TP-81 | Q2514-09 | 07/07/2025 | 21:22 | PD089373.D | 9.07 | 3.55 |
| TP-90 | Q2514-10 | 07/07/2025 | 21:35 | PD089374.D | 9.07 | 3.55 |
| I.BLK | I.BLK | 07/07/2025 | 22:03 | PD089376.D | 9.07 | 3.55 |
| PSTDCCC050 | PSTDCCC050 | 07/07/2025 | 22:17 | PD089377.D | 9.07 | 3.55 |

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# Analytical Sequence

**Client:** CDM Smith **SDG No.:** Q2514

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

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

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

| CLIENT ID | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 06/17/2025 | 15:11 | PD088990.D | 8.07 | 2.88 |
| PEM | PEM | 06/17/2025 | 15:25 | PD088991.D | 8.07 | 2.88 |
| RESCHK | RESCHK | 06/17/2025 | 15:39 | PD088992.D | 8.07 | 2.88 |
| PSTDICC100 | PSTDICC100 | 06/17/2025 | 15:52 | PD088993.D | 8.07 | 2.88 |
| PSTDICC075 | PSTDICC075 | 06/17/2025 | 16:06 | PD088994.D | 8.07 | 2.88 |
| PSTDICC050 | PSTDICC050 | 06/17/2025 | 16:20 | PD088995.D | 8.07 | 2.88 |
| PSTDICC025 | PSTDICC025 | 06/17/2025 | 16:33 | PD088996.D | 8.07 | 2.88 |
| PSTDICC005 | PSTDICC005 | 06/17/2025 | 16:47 | PD088997.D | 8.07 | 2.88 |
| PCHLORICC500 | PCHLORICC500 | 06/17/2025 | 17:28 | PD089000.D | 8.07 | 2.88 |
| PTOXICC500 | PTOXICC500 | 06/17/2025 | 18:36 | PD089005.D | 8.07 | 2.88 |
| I.BLK | I.BLK | 07/07/2025 | 11:34 | PD089340.D | 8.07 | 2.88 |
| PEM | PEM | 07/07/2025 | 11:48 | PD089341.D | 8.07 | 2.88 |
| PSTDCCC050 | PSTDCCC050 | 07/07/2025 | 12:02 | PD089342.D | 8.07 | 2.88 |
| PB168736BL | PB168736BL | 07/07/2025 | 15:07 | PD089353.D | 8.07 | 2.88 |
| PB168736BS | PB168736BS | 07/07/2025 | 15:44 | PD089354.D | 8.07 | 2.88 |
| I.BLK | I.BLK | 07/07/2025 | 16:13 | PD089356.D | 8.07 | 2.88 |
| PSTDCCC050 | PSTDCCC050 | 07/07/2025 | 16:27 | PD089357.D | 8.07 | 2.88 |
| TP-92 | Q2514-01 | 07/07/2025 | 17:56 | PD089360.D | 8.07 | 2.88 |
| TP-92MS | Q2514-01MS | 07/07/2025 | 18:10 | PD089361.D | 8.07 | 2.88 |
| TP-92MSD | Q2514-01MSD | 07/07/2025 | 18:23 | PD089362.D | 8.07 | 2.88 |
| TP-93 | Q2514-02 | 07/07/2025 | 18:37 | PD089363.D | 8.07 | 2.88 |
| TP-94 | Q2514-03 | 07/07/2025 | 18:51 | PD089364.D | 8.07 | 2.88 |
| TP-96 | Q2514-04 | 07/07/2025 | 19:04 | PD089365.D | 8.07 | 2.88 |
| TP-97 | Q2514-05 | 07/07/2025 | 19:18 | PD089366.D | 8.07 | 2.88 |
| I.BLK | I.BLK | 07/07/2025 | 19:32 | PD089367.D | 8.07 | 2.88 |
| PEM | PEM | 07/07/2025 | 19:46 | PD089368.D | 8.07 | 2.88 |
| PSTDCCC050 | PSTDCCC050 | 07/07/2025 | 19:59 | PD089369.D | 8.07 | 2.88 |
| TP-103 | Q2514-06 | 07/07/2025 | 20:41 | PD089370.D | 8.07 | 2.88 |
| TP-36 | Q2514-07 | 07/07/2025 | 20:54 | PD089371.D | 8.07 | 2.88 |
| TP-78 | Q2514-08 | 07/07/2025 | 21:08 | PD089372.D | 8.07 | 2.88 |
| TP-81 | Q2514-09 | 07/07/2025 | 21:22 | PD089373.D | 8.07 | 2.88 |
| TP-90 | Q2514-10 | 07/07/2025 | 21:35 | PD089374.D | 8.07 | 2.88 |
| I.BLK | I.BLK | 07/07/2025 | 22:03 | PD089376.D | 8.07 | 2.88 |
| PSTDCCC050 | PSTDCCC050 | 07/07/2025 | 22:17 | PD089377.D | 8.07 | 2.88 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB168736BS**

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Lab Sample ID:** PB168736BS **Date(s) Analyzed:** 07/07/2025 07/07/2025

**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 | 16.3 | 7.7 |
| | 2 | 5.93 | 5.88 | 5.98 | 17.6 | |
| 4,4'-DDE | 1 | 6.20 | 6.15 | 6.25 | 16.0 | 13.4 |
| | 2 | 5.37 | 5.32 | 5.42 | 18.3 | |
| 4,4'-DDT | 1 | 7.02 | 6.97 | 7.07 | 16.0 | 7.2 |
| | 2 | 6.18 | 6.13 | 6.23 | 17.2 | |
| alpha-BHC | 1 | 4.00 | 3.95 | 4.05 | 17.9 | 4.9 |
| | 2 | 3.39 | 3.34 | 3.44 | 18.8 | |
| Aldrin | 1 | 5.27 | 5.22 | 5.32 | 17.6 | 6.6 |
| | 2 | 4.37 | 4.32 | 4.42 | 18.8 | |
| alpha-Chlordane | 1 | 6.03 | 5.98 | 6.08 | 16.8 | 9.6 |
| | 2 | 5.19 | 5.14 | 5.24 | 18.5 | |
| Endosulfan II | 1 | 6.79 | 6.74 | 6.84 | 16.6 | 4.7 |
| | 2 | 6.08 | 6.03 | 6.13 | 17.4 | |
| Endosulfan sulfate | 1 | 7.15 | 7.10 | 7.20 | 15.8 | 5.5 |
| | 2 | 6.48 | 6.43 | 6.53 | 16.7 | |
| beta-BHC | 1 | 4.52 | 4.47 | 4.57 | 17.0 | 7.4 |
| | 2 | 4.03 | 3.98 | 4.08 | 18.3 | |
| delta-BHC | 1 | 4.77 | 4.72 | 4.82 | 18.7 | 1.1 |
| | 2 | 4.26 | 4.21 | 4.31 | 18.9 | |
| Endosulfan I | 1 | 6.08 | 6.03 | 6.13 | 16.8 | 10.7 |
| | 2 | 5.25 | 5.20 | 5.30 | 18.7 | |
| Dieldrin | 1 | 6.35 | 6.30 | 6.40 | 16.6 | 8.6 |
| | 2 | 5.51 | 5.46 | 5.56 | 18.1 | |
| Endrin aldehyde | 1 | 6.92 | 6.87 | 6.97 | 16.1 | 4.8 |
| | 2 | 6.26 | 6.21 | 6.31 | 16.9 | |
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 14.6 | 8.5 |
| | 2 | 6.75 | 6.70 | 6.80 | 15.9 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB168736BS**

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Lab Sample ID:** PB168736BS **Date(s) Analyzed:** 07/07/2025 07/07/2025

**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 | 7.63 | 7.58 | 7.68 | 15.4 | 2.6 |
| | 2 | 6.99 | 6.94 | 7.04 | 15.8 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 17.8 | 5.5 |
| | 2 | 3.73 | 3.68 | 3.78 | 18.8 | |
| Heptachlor | 1 | 4.93 | 4.88 | 4.98 | 17.9 | 3.8 |
| | 2 | 4.08 | 4.03 | 4.13 | 18.6 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 17.1 | 10.5 |
| | 2 | 4.87 | 4.82 | 4.92 | 19.0 | |
| gamma-Chlordane | 1 | 5.95 | 5.90 | 6.00 | 16.9 | 9.6 |
| | 2 | 5.13 | 5.08 | 5.18 | 18.6 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 16.4 | 5.9 |
| | 2 | 5.79 | 5.74 | 5.84 | 17.4 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**TP-92MS**

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Lab Sample ID:** Q2514-01MS **Date(s) Analyzed:** 07/07/2025 07/07/2025

**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 | 1 | 4.93 | 4.88 | 4.98 | 15.5 | 10.4 |
| | 2 | 4.08 | 4.03 | 4.13 | 17.2 | |
| Aldrin | 1 | 5.27 | 5.22 | 5.32 | 15.2 | 11.8 |
| | 2 | 4.37 | 4.32 | 4.42 | 17.1 | |
| beta-BHC | 1 | 4.52 | 4.47 | 4.57 | 15.8 | 9.6 |
| | 2 | 4.03 | 3.98 | 4.08 | 17.4 | |
| delta-BHC | 1 | 4.76 | 4.71 | 4.81 | 16.9 | 1.2 |
| | 2 | 4.26 | 4.21 | 4.31 | 17.1 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 14.3 | 13.7 |
| | 2 | 4.87 | 4.82 | 4.92 | 16.4 | |
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 14.0 | 12.1 |
| | 2 | 5.25 | 5.20 | 5.30 | 15.8 | |
| gamma-Chlordane | 1 | 5.95 | 5.90 | 6.00 | 13.9 | 12.2 |
| | 2 | 5.12 | 5.07 | 5.17 | 15.7 | |
| alpha-Chlordane | 1 | 6.03 | 5.98 | 6.08 | 13.9 | 11.5 |
| | 2 | 5.19 | 5.14 | 5.24 | 15.6 | |
| 4,4'-DDE | 1 | 6.20 | 6.15 | 6.25 | 13.7 | 11.7 |
| | 2 | 5.37 | 5.32 | 5.42 | 15.4 | |
| Dieldrin | 1 | 6.35 | 6.30 | 6.40 | 13.4 | 10.6 |
| | 2 | 5.51 | 5.46 | 5.56 | 14.9 | |
| Endrin | 1 | 6.57 | 6.52 | 6.62 | 13.6 | 2.9 |
| | 2 | 5.79 | 5.74 | 5.84 | 14.0 | |
| Endosulfan II | 1 | 6.79 | 6.74 | 6.84 | 13.2 | 1.5 |
| | 2 | 6.08 | 6.03 | 6.13 | 13.0 | |
| 4,4'-DDD | 1 | 6.70 | 6.65 | 6.75 | 13.0 | 0.8 |
| | 2 | 5.93 | 5.88 | 5.98 | 12.9 | |
| 4,4'-DDT | 1 | 7.02 | 6.97 | 7.07 | 12.2 | 5.6 |
| | 2 | 6.18 | 6.13 | 6.23 | 12.9 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**TP-92MS**

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Lab Sample ID:** Q2514-01MS **Date(s) Analyzed:** 07/07/2025 07/07/2025

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endrin aldehyde | 1 | 6.91 | 6.86 | 6.96 | 12.8 | 0 |
| | 2 | 6.26 | 6.21 | 6.31 | 12.8 | |
| Endosulfan sulfate | 1 | 7.15 | 7.10 | 7.20 | 12.9 | 0.8 |
| | 2 | 6.48 | 6.43 | 6.53 | 13.0 | |
| Methoxychlor | 1 | 7.49 | 7.44 | 7.54 | 11.1 | 8.6 |
| | 2 | 6.75 | 6.70 | 6.80 | 12.1 | |
| Endrin ketone | 1 | 7.63 | 7.58 | 7.68 | 12.2 | 8.5 |
| | 2 | 6.99 | 6.94 | 7.04 | 11.2 | |
| alpha-BHC | 1 | 4.00 | 3.95 | 4.05 | 16.0 | 11.2 |
| | 2 | 3.39 | 3.34 | 3.44 | 17.9 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 16.3 | 8.8 |
| | 2 | 3.73 | 3.68 | 3.78 | 17.8 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**TP-92MSD**

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Lab Sample ID:** Q2514-01MSD **Date(s) Analyzed:** 07/07/2025 07/07/2025

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.79 | 6.74 | 6.84 | 13.3 | 4.4 |
| | 2 | 6.08 | 6.03 | 6.13 | 13.9 | |
| 4,4'-DDD | 1 | 6.70 | 6.65 | 6.75 | 13.4 | 2.2 |
| | 2 | 5.93 | 5.88 | 5.98 | 13.7 | |
| 4,4'-DDT | 1 | 7.02 | 6.97 | 7.07 | 12.8 | 9 |
| | 2 | 6.18 | 6.13 | 6.23 | 14.0 | |
| Endrin aldehyde | 1 | 6.91 | 6.86 | 6.96 | 13.5 | 0.7 |
| | 2 | 6.26 | 6.21 | 6.31 | 13.6 | |
| Endosulfan sulfate | 1 | 7.15 | 7.10 | 7.20 | 12.6 | 7.6 |
| | 2 | 6.48 | 6.43 | 6.53 | 13.6 | |
| alpha-BHC | 1 | 4.00 | 3.95 | 4.05 | 16.4 | 8.7 |
| | 2 | 3.39 | 3.34 | 3.44 | 17.9 | |
| Aldrin | 1 | 5.27 | 5.22 | 5.32 | 15.7 | 10.3 |
| | 2 | 4.37 | 4.32 | 4.42 | 17.4 | |
| beta-BHC | 1 | 4.52 | 4.47 | 4.57 | 15.8 | 11.3 |
| | 2 | 4.02 | 3.97 | 4.07 | 17.7 | |
| delta-BHC | 1 | 4.76 | 4.71 | 4.81 | 17.6 | 1.7 |
| | 2 | 4.26 | 4.21 | 4.31 | 17.3 | |
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 14.5 | 15.3 |
| | 2 | 5.25 | 5.20 | 5.30 | 16.9 | |
| alpha-Chlordane | 1 | 6.03 | 5.98 | 6.08 | 14.5 | 13.5 |
| | 2 | 5.19 | 5.14 | 5.24 | 16.6 | |
| 4,4'-DDE | 1 | 6.20 | 6.15 | 6.25 | 14.0 | 14 |
| | 2 | 5.37 | 5.32 | 5.42 | 16.1 | |
| Dieldrin | 1 | 6.35 | 6.30 | 6.40 | 13.8 | 10.3 |
| | 2 | 5.51 | 5.46 | 5.56 | 15.3 | |
| Endrin | 1 | 6.57 | 6.52 | 6.62 | 14.0 | 5.6 |
| | 2 | 5.79 | 5.74 | 5.84 | 14.8 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**TP-92MSD**

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Lab Sample ID:** Q2514-01MSD **Date(s) Analyzed:** 07/07/2025 07/07/2025

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Methoxychlor | 1 | 7.49 | 7.44 | 7.54 | 12.1 | 7.2 |
| | 2 | 6.75 | 6.70 | 6.80 | 13.0 | |
| Endrin ketone | 1 | 7.63 | 7.58 | 7.68 | 12.6 | 3.2 |
| | 2 | 6.99 | 6.94 | 7.04 | 12.2 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 16.3 | 9.4 |
| | 2 | 3.73 | 3.68 | 3.78 | 17.9 | |
| Heptachlor | 1 | 4.93 | 4.88 | 4.98 | 16.3 | 6.5 |
| | 2 | 4.08 | 4.03 | 4.13 | 17.4 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 14.7 | 13.9 |
| | 2 | 4.87 | 4.82 | 4.92 | 16.9 | |
| gamma-Chlordane | 1 | 5.95 | 5.90 | 6.00 | 14.7 | 9.1 |
| | 2 | 5.12 | 5.07 | 5.17 | 16.1 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**TP-93**

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Lab Sample ID:** Q2514-02 **Date(s) Analyzed:** 07/07/2025 07/07/2025

**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 |
|---|---|---|---|---|---|---|
| alpha-Chlordane | 1 | 6.03 | 5.98 | 6.08 | 0.36 | 17.1 |
| | 2 | 5.19 | 5.14 | 5.24 | 0.30 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**TP-94**

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Lab Sample ID:** Q2514-03 **Date(s) Analyzed:** 07/07/2025 07/07/2025

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 4,4'-DDT | 1 | 7.02 | 6.97 | 7.07 | 0.39 | 34.5 |
| | 2 | 6.18 | 6.13 | 6.23 | 0.55 | |
| 4,4'-DDE | 1 | 6.20 | 6.15 | 6.25 | 0.23 | 56.6 |
| | 2 | 5.37 | 5.32 | 5.42 | 0.42 | |

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## COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-96

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2514

Lab Sample ID: Q2514-04

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

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 4,4'-DDT | 1 | 7.02 | 6.97 | 7.07 | 0.24 | 32.9 |
| | 2 | 6.18 | 6.13 | 6.23 | 0.33 | |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2514 | **OrderDate:** | 7/3/2025 1:29:00 PM |
| **Client:** | CDM Smith | **Project:** | South River WM Replacement |
| **Contact:** | Marcie Ann Encinas | **Location:** | O21,O22,VOA Lab |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2514-01** | **TP-92** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-02** | **TP-93** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-03** | **TP-94** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-04** | **TP-96** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-05** | **TP-97** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-06** | **TP-103** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-07** | **TP-36** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-08** | **TP-78** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-09** | **TP-81** | **SOIL** | | | **07/03/25** | | | **07/03/25** |

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## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-10** | **TP-90** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2514 **Order ID:** Q2514

**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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 87.4 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 |
|---|---|---|---|---|
| PO112065.D | 1 | 07/07/25 08:30 | 07/08/25 00:29 | PB168735 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.50 | U | 4.50 | 19.4 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.60 | U | 4.60 | 19.4 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 4.20 | U | 4.20 | 19.4 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.60 | U | 4.60 | 19.4 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.80 | U | 6.80 | 19.4 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.70 | U | 3.70 | 19.4 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.70 | U | 5.70 | 19.4 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.10 | U | 4.10 | 19.4 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.70 | U | 3.70 | 19.4 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.4 | | 32 - 144 | 102% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 10.4 | | 32 - 175 | 52% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 87.7 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 |
|---|---|---|---|---|
| PO112066.D | 1 | 07/07/25 08:30 | 07/08/25 00:46 | PB168735 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.50 | U | 4.50 | 19.4 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.60 | U | 4.60 | 19.4 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 4.20 | U | 4.20 | 19.4 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.60 | U | 4.60 | 19.4 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.70 | U | 6.70 | 19.4 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.70 | U | 3.70 | 19.4 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.70 | U | 5.70 | 19.4 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.10 | U | 4.10 | 19.4 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.70 | U | 3.70 | 19.4 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 18.2 | | 32 - 144 | 91% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 12.8 | | 32 - 175 | 64% | SPK: 20 |

Comments:

U = Not Detected
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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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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC 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: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 88.1 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 |
|---|---|---|---|---|
| PO112073.D | 1 | 07/07/25 08:30 | 07/08/25 05:44 | PB168735 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.50 | U | 4.50 | 19.2 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.60 | U | 4.60 | 19.2 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 4.20 | U | 4.20 | 19.2 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.50 | U | 4.50 | 19.2 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.70 | U | 6.70 | 19.2 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.60 | U | 3.60 | 19.2 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.70 | U | 5.70 | 19.2 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.10 | U | 4.10 | 19.2 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.70 | U | 3.70 | 19.2 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.5 | | 32 - 144 | 108% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 13.8 | | 32 - 175 | 69% | SPK: 20 |

Comments:

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() = 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: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 85.8 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 |
|---|---|---|---|---|
| PO112074.D | 1 | 07/07/25 08:30 | 07/08/25 06:02 | PB168735 |

| 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 | 5.80 | U | 5.80 | 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 | 20.5 | | 32 - 144 | 102% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 14.3 | | 32 - 175 | 72% | SPK: 20 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 85 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 |
|---|---|---|---|---|
| PO112075.D | 1 | 07/07/25 08:30 | 07/08/25 06:21 | PB168735 |

| 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 | 7.00 | U | 7.00 | 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 | 20.1 | | 32 - 144 | 100% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 13.3 | | 32 - 175 | 66% | SPK: 20 |

Comments:

U = Not Detected
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() = 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: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 86.5 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 |
|---|---|---|---|---|
| PO112076.D | 1 | 07/07/25 08:30 | 07/08/25 06:39 | PB168735 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.60 | U | 4.60 | 19.6 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.70 | U | 4.70 | 19.6 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 4.30 | U | 4.30 | 19.6 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.60 | U | 4.60 | 19.6 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.80 | U | 6.80 | 19.6 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.70 | U | 3.70 | 19.6 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.80 | U | 5.80 | 19.6 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.20 | U | 4.20 | 19.6 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.70 | U | 3.70 | 19.6 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.1 | | 32 - 144 | 101% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 13.2 | | 32 - 175 | 66% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 90.3 Decanted: |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO112077.D | 1 | 07/07/25 08:30 | 07/08/25 06:58 | PB168735 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.40 | U | 4.40 | 18.8 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.50 | U | 4.50 | 18.8 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 4.10 | U | 4.10 | 18.8 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.40 | U | 4.40 | 18.8 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.50 | U | 6.50 | 18.8 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.50 | U | 3.50 | 18.8 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.50 | U | 5.50 | 18.8 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.00 | U | 4.00 | 18.8 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.60 | U | 3.60 | 18.8 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.6 | | 32 - 144 | 108% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 15.7 | | 32 - 175 | 79% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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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: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 86.3 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 |
|---|---|---|---|---|
| PO112078.D | 1 | 07/07/25 08:30 | 07/08/25 07:16 | PB168735 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.60 | U | 4.60 | 19.6 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.70 | U | 4.70 | 19.6 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 4.30 | U | 4.30 | 19.6 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.60 | U | 4.60 | 19.6 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.80 | U | 6.80 | 19.6 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.70 | U | 3.70 | 19.6 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.80 | U | 5.80 | 19.6 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.20 | U | 4.20 | 19.6 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.70 | U | 3.70 | 19.6 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 18.9 | | 32 - 144 | 94% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 10.9 | | 32 - 175 | 54% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 86.3 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 |
|---|---|---|---|---|
| PO112079.D | 1 | 07/07/25 08:30 | 07/08/25 07:35 | PB168735 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.60 | U | 4.60 | 19.7 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.70 | U | 4.70 | 19.7 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 4.30 | U | 4.30 | 19.7 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.60 | U | 4.60 | 19.7 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.90 | U | 6.90 | 19.7 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.70 | U | 3.70 | 19.7 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.80 | U | 5.80 | 19.7 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.20 | U | 4.20 | 19.7 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.70 | U | 3.70 | 19.7 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.4 | | 32 - 144 | 97% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 10.0 | | 32 - 175 | 50% | SPK: 20 |

Comments:

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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: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 91.6 Decanted: |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO112080.D | 1 | 07/07/25 08:30 | 07/08/25 07:53 | PB168735 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 4.30 | U | 4.30 | 18.5 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.40 | U | 4.40 | 18.5 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 4.10 | U | 4.10 | 18.5 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.40 | U | 4.40 | 18.5 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.50 | U | 6.50 | 18.5 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.50 | U | 3.50 | 18.5 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.50 | U | 5.50 | 18.5 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.90 | U | 3.90 | 18.5 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.50 | U | 3.50 | 18.5 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 22.2 | | 32 - 144 | 111% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 17.0 | | 32 - 175 | 85% | SPK: 20 |

Comments:

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

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B = Analyte Found in Associated Method Blank
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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

# QC SUMMARY

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## Surrogate Summary

**SDG No.:** Q2514

**Client:** CDM Smith

**Analytical Method:** 8082A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Recovery(%) | Qual | Limits(%) Low | Limits(%) High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PO111586.D | PIBLK-PO111586.D | Tetrachloro-m-xyl | 1 | 20 | 20.3 | 102 | | 60 | 140 |
| | | Decachlorobiphen | 1 | 20 | 20.7 | 104 | | 60 | 140 |
| | | Tetrachloro-m-xyl | 2 | 20 | 19.0 | 95 | | 60 | 140 |
| | | Decachlorobiphen | 2 | 20 | 20.5 | 103 | | 60 | 140 |
| I.BLK-PO112056.D | PIBLK-PO112056.D | Tetrachloro-m-xyl | 1 | 20 | 18.8 | 94 | | 60 | 140 |
| | | Decachlorobiphen | 1 | 20 | 16.8 | 84 | | 60 | 140 |
| | | Tetrachloro-m-xyl | 2 | 20 | 16.9 | 85 | | 60 | 140 |
| | | Decachlorobiphen | 2 | 20 | 17.1 | 86 | | 60 | 140 |
| PB168735BL | PB168735BL | Tetrachloro-m-xyl | 1 | 20 | 20.5 | 103 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 18.0 | 90 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 18.6 | 93 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 18.5 | 92 | | 32 | 175 |
| PB168735BS | PB168735BS | Tetrachloro-m-xyl | 1 | 20 | 19.5 | 98 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 18.3 | 92 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 17.5 | 87 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 18.5 | 92 | | 32 | 175 |
| Q2513-03MS | HR-3-070325MS | Tetrachloro-m-xyl | 1 | 20 | 15.0 | 75 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 9.84 | 49 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 13.8 | 69 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 12.3 | 61 | | 32 | 175 |
| Q2513-03MSD | HR-3-070325MSD | Tetrachloro-m-xyl | 1 | 20 | 14.9 | 74 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 10.3 | 52 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 13.6 | 68 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 13.0 | 65 | | 32 | 175 |
| Q2514-01 | TP-92 | Tetrachloro-m-xyl | 1 | 20 | 20.4 | 102 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 8.01 | 40 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 17.8 | 89 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 10.4 | 52 | | 32 | 175 |
| Q2514-02 | TP-93 | Tetrachloro-m-xyl | 1 | 20 | 18.2 | 91 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 10.4 | 52 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 16.4 | 82 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 12.8 | 64 | | 32 | 175 |
| I.BLK-PO112072.D | PIBLK-PO112072.D | Tetrachloro-m-xyl | 1 | 20 | 20.6 | 103 | | 60 | 140 |
| | | Decachlorobiphen | 1 | 20 | 16.1 | 80 | | 60 | 140 |
| | | Tetrachloro-m-xyl | 2 | 20 | 18.3 | 92 | | 60 | 140 |
| | | Decachlorobiphen | 2 | 20 | 17.4 | 87 | | 60 | 140 |
| Q2514-03 | TP-94 | Tetrachloro-m-xyl | 1 | 20 | 21.5 | 108 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 13.1 | 65 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 18.8 | 94 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 13.8 | 69 | | 32 | 175 |
| Q2514-04 | TP-96 | Tetrachloro-m-xyl | 1 | 20 | 20.5 | 102 | | 32 | 144 |

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## Surrogate Summary

**SDG No.:** Q2514

**Client:** CDM Smith

**Analytical Method:** 8082A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Recovery(%) | Qual | Limits(%) Low | Limits(%) High |
|---|---|---|---|---|---|---|---|---|---|
| Q2514-04 | TP-96 | Decachlorobiphen | 1 | 20 | 12.9 | 65 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 18.0 | 90 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 14.3 | 72 | | 32 | 175 |
| Q2514-05 | TP-97 | Tetrachloro-m-xyl | 1 | 20 | 20.1 | 100 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 12.2 | 61 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 17.5 | 87 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 13.3 | 66 | | 32 | 175 |
| Q2514-06 | TP-103 | Tetrachloro-m-xyl | 1 | 20 | 20.1 | 101 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 12.4 | 62 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 17.6 | 88 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 13.2 | 66 | | 32 | 175 |
| Q2514-07 | TP-36 | Tetrachloro-m-xyl | 1 | 20 | 21.6 | 108 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 15.4 | 77 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 18.9 | 94 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 15.7 | 79 | | 32 | 175 |
| Q2514-08 | TP-78 | Tetrachloro-m-xyl | 1 | 20 | 18.9 | 94 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 10.9 | 54 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 16.7 | 84 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 10.9 | 54 | | 32 | 175 |
| Q2514-09 | TP-81 | Tetrachloro-m-xyl | 1 | 20 | 19.4 | 97 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 9.85 | 49 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 17.2 | 86 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 10.0 | 50 | | 32 | 175 |
| Q2514-10 | TP-90 | Tetrachloro-m-xyl | 1 | 20 | 22.2 | 111 | | 32 | 144 |
| | | Decachlorobiphen | 1 | 20 | 16.5 | 83 | | 32 | 175 |
| | | Tetrachloro-m-xyl | 2 | 20 | 19.6 | 98 | | 32 | 144 |
| | | Decachlorobiphen | 2 | 20 | 17.0 | 85 | | 32 | 175 |
| I.BLK-PO112085.D | PIBLK-PO112085.D | Tetrachloro-m-xyl | 1 | 20 | 17.8 | 89 | | 60 | 140 |
| | | Decachlorobiphen | 1 | 20 | 14.5 | 72 | | 60 | 140 |
| | | Tetrachloro-m-xyl | 2 | 20 | 11.4 | 57 | * | 60 | 140 |
| | | Decachlorobiphen | 2 | 20 | 11.1 | 55 | * | 60 | 140 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | Q2514 | **Analytical Method:** | 8082A |
| **Client:** | CDM Smith | **DataFile :** | PO112063.D |

| | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** | **Q2513-03MS (Column 1)** | **Client Sample ID:** | | **HR-3-070325MS** | | | | | | | | |
| | AR1016 | 176.2 | 0 | 118 | ug/kg | 67 | | | | 55 | 146 | |
| | AR1260 | 176.2 | 0 | 105 | ug/kg | 60 | | | | 54 | 119 | |
| **Lab Sample ID:** | **Q2513-03MS (Column 2)** | **Client Sample ID:** | | **HR-3-070325MS** | | | | | | | | |
| | AR1016 | 176.2 | 0 | 115 | ug/kg | 65 | | | | 55 | 146 | |
| | AR1260 | 176.2 | 0 | 112 | ug/kg | 64 | | | | 54 | 119 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** 8082A

**Client:** CDM Smith **DataFile :** PO112064.D

| | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** | **Q2513-03MSD (Column 1)** | **Client Sample ID:** | | **HR-3-070325MSD** | | | | | | | | |
| | AR1016 | 176.4 | 0 | 109 | ug/kg | 62 | | 8 | | 55 | 146 | 15 |
| | AR1260 | 176.4 | 0 | 107 | ug/kg | 61 | | 2 | | 54 | 119 | 15 |
| **Lab Sample ID:** | **Q2513-03MSD (Column 2)** | **Client Sample ID:** | | **HR-3-070325MSD** | | | | | | | | |
| | AR1016 | 176.4 | 0 | 119 | ug/kg | 67 | | 3 | | 55 | 146 | 15 |
| | AR1260 | 176.4 | 0 | 114 | ug/kg | 65 | | 2 | | 54 | 119 | 15 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** 8082A

**Client:** CDM Smith **Datafile :** PO112058.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168735BS (Column 1) | AR1016 | 166.6 | 145 | ug/kg | 87 | | | | 71 | 120 | |
| | AR1260 | 166.6 | 163 | ug/kg | 98 | | | | 65 | 130 | |
| PB168735BS (Column 2) | AR1016 | 166.6 | 150 | ug/kg | 90 | | | | 71 | 120 | |
| | AR1260 | 166.6 | 152 | ug/kg | 91 | | | | 65 | 130 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168735BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2514

Lab Sample ID: PB168735BL | Lab File ID: PO112057.D

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

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/07/2025

Date Analyzed (1): 07/07/2025 | Date Analyzed (2): 07/07/2025

Time Analyzed (1): 22:01 | Time Analyzed (2): 22:01

Instrument ID (1): ECD_O | Instrument ID (2): ECD_O

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| PB168735BS | PB168735BS | PO112058.D | 07/07/2025 | 07/07/2025 |
| HR-3-070325MS | Q2513-03MS | PO112063.D | 07/07/2025 | 07/07/2025 |
| HR-3-070325MSD | Q2513-03MSD | PO112064.D | 07/08/2025 | 07/08/2025 |
| TP-92 | Q2514-01 | PO112065.D | 07/08/2025 | 07/08/2025 |
| TP-93 | Q2514-02 | PO112066.D | 07/08/2025 | 07/08/2025 |
| TP-94 | Q2514-03 | PO112073.D | 07/08/2025 | 07/08/2025 |
| TP-96 | Q2514-04 | PO112074.D | 07/08/2025 | 07/08/2025 |
| TP-97 | Q2514-05 | PO112075.D | 07/08/2025 | 07/08/2025 |
| TP-103 | Q2514-06 | PO112076.D | 07/08/2025 | 07/08/2025 |
| TP-36 | Q2514-07 | PO112077.D | 07/08/2025 | 07/08/2025 |
| TP-78 | Q2514-08 | PO112078.D | 07/08/2025 | 07/08/2025 |
| TP-81 | Q2514-09 | PO112079.D | 07/08/2025 | 07/08/2025 |
| TP-90 | Q2514-10 | PO112080.D | 07/08/2025 | 07/08/2025 |

COMMENTS:

# CALIBRATION SUMMARY

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## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Instrument ID:** ECD_O **Calibration Date(s):** 06/11/2025 06/11/2025

**Calibration Times:** 10:40 19:07

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

**LAB FILE ID:** RT 1000 = PO111587.D RT 750 = PO111588.D

RT 500 = PO111589.D RT 250 = PO111590.D RT 050 = PO111591.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.67 | 4.87 |
| Aroclor-1016-2 | (2) | 4.78 | 4.79 | 4.78 | 4.79 | 4.78 | 4.78 | 4.68 | 4.88 |
| Aroclor-1016-3 | (3) | 4.84 | 4.84 | 4.84 | 4.84 | 4.84 | 4.84 | 4.74 | 4.94 |
| Aroclor-1016-4 | (4) | 4.96 | 4.96 | 4.96 | 4.96 | 4.96 | 4.96 | 4.86 | 5.06 |
| Aroclor-1016-5 | (5) | 5.22 | 5.22 | 5.22 | 5.22 | 5.22 | 5.22 | 5.12 | 5.32 |
| Aroclor-1260-1 | (1) | 6.26 | 6.26 | 6.26 | 6.26 | 6.26 | 6.26 | 6.16 | 6.36 |
| Aroclor-1260-2 | (2) | 6.45 | 6.45 | 6.45 | 6.45 | 6.45 | 6.45 | 6.35 | 6.55 |
| Aroclor-1260-3 | (3) | 6.81 | 6.81 | 6.81 | 6.81 | 6.81 | 6.81 | 6.71 | 6.91 |
| Aroclor-1260-4 | (4) | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 6.97 | 7.17 |
| Aroclor-1260-5 | (5) | 7.32 | 7.32 | 7.32 | 7.32 | 7.32 | 7.32 | 7.22 | 7.42 |
| Decachlorobiphenyl | | 8.71 | 8.71 | 8.71 | 8.71 | 8.71 | 8.71 | 8.61 | 8.81 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |
| Aroclor-1242-1 | (1) | 4.77 | 4.77 | 4.77 | 4.76 | 4.77 | 4.77 | 4.67 | 4.87 |
| Aroclor-1242-2 | (2) | 4.79 | 4.79 | 4.78 | 4.78 | 4.78 | 4.78 | 4.68 | 4.88 |
| Aroclor-1242-3 | (3) | 4.84 | 4.84 | 4.84 | 4.84 | 4.84 | 4.84 | 4.74 | 4.94 |
| Aroclor-1242-4 | (4) | 4.96 | 4.96 | 4.96 | 4.96 | 4.96 | 4.96 | 4.86 | 5.06 |
| Aroclor-1242-5 | (5) | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.51 | 5.71 |
| Decachlorobiphenyl | | 8.71 | 8.71 | 8.71 | 8.71 | 8.71 | 8.71 | 8.61 | 8.81 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |
| Aroclor-1248-1 | (1) | 4.77 | 4.77 | 4.76 | 4.76 | 4.76 | 4.76 | 4.66 | 4.86 |
| Aroclor-1248-2 | (2) | 5.01 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.90 | 5.10 |
| Aroclor-1248-3 | (3) | 5.22 | 5.22 | 5.22 | 5.22 | 5.22 | 5.22 | 5.12 | 5.32 |
| Aroclor-1248-4 | (4) | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.47 | 5.67 |
| Aroclor-1248-5 | (5) | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.51 | 5.71 |
| Decachlorobiphenyl | | 8.71 | 8.71 | 8.71 | 8.71 | 8.71 | 8.71 | 8.61 | 8.81 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |
| Aroclor-1254-1 | (1) | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.47 | 5.67 |
| Aroclor-1254-2 | (2) | 5.72 | 5.72 | 5.72 | 5.72 | 5.72 | 5.72 | 5.62 | 5.82 |
| Aroclor-1254-3 | (3) | 6.12 | 6.13 | 6.13 | 6.13 | 6.12 | 6.13 | 6.03 | 6.23 |
| Aroclor-1254-4 | (4) | 6.35 | 6.36 | 6.36 | 6.35 | 6.35 | 6.35 | 6.25 | 6.45 |
| Aroclor-1254-5 | (5) | 6.77 | 6.78 | 6.78 | 6.77 | 6.77 | 6.77 | 6.67 | 6.87 |
| Decachlorobiphenyl | | 8.71 | 8.71 | 8.71 | 8.71 | 8.71 | 8.71 | 8.61 | 8.81 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |
| Aroclor-1268-1 | (1) | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.50 | 7.70 |
| Aroclor-1268-2 | (2) | 7.67 | 7.67 | 7.67 | 7.67 | 7.66 | 7.67 | 7.57 | 7.77 |
| Aroclor-1268-3 | (3) | 7.87 | 7.87 | 7.87 | 7.87 | 7.87 | 7.87 | 7.77 | 7.97 |
| Aroclor-1268-4 | (4) | 8.16 | 8.16 | 8.16 | 8.16 | 8.16 | 8.16 | 8.06 | 8.26 |
| Aroclor-1268-5 | (5) | 8.46 | 8.46 | 8.46 | 8.46 | 8.45 | 8.46 | 8.36 | 8.56 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.71 | 8.71 | 8.71 | 8.71 | 8.71 | 8.71 | 8.61 | 8.81 |
| Tetrachloro-m-xylene | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.68 | 3.58 | 3.78 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Instrument ID:** ECD_O **Calibration Date(s):** 06/11/2025 06/11/2025

**Calibration Times:** 10:40 19:07

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

**LAB FILE ID:** RT 1000 = PO111587.D RT 750 = PO111588.D

RT 500 = PO111589.D RT 250 = PO111590.D RT 050 = PO111591.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.65 | 4.85 |
| Aroclor-1016-2 | (2) | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.67 | 4.87 |
| Aroclor-1016-3 | (3) | 4.94 | 4.94 | 4.94 | 4.94 | 4.94 | 4.94 | 4.84 | 5.04 |
| Aroclor-1016-4 | (4) | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.89 | 5.09 |
| Aroclor-1016-5 | (5) | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 | 5.10 | 5.30 |
| Aroclor-1260-1 | (1) | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.13 | 6.33 |
| Aroclor-1260-2 | (2) | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.32 | 6.52 |
| Aroclor-1260-3 | (3) | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.57 | 6.47 | 6.67 |
| Aroclor-1260-4 | (4) | 7.04 | 7.04 | 7.04 | 7.04 | 7.04 | 7.04 | 6.94 | 7.14 |
| Aroclor-1260-5 | (5) | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.18 | 7.38 |
| Decachlorobiphenyl | | 8.66 | 8.66 | 8.66 | 8.66 | 8.66 | 8.66 | 8.56 | 8.76 |
| Tetrachloro-m-xylene | | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.57 | 3.77 |
| Aroclor-1242-1 | (1) | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.65 | 4.85 |
| Aroclor-1242-2 | (2) | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.67 | 4.87 |
| Aroclor-1242-3 | (3) | 4.94 | 4.94 | 4.94 | 4.94 | 4.94 | 4.94 | 4.84 | 5.04 |
| Aroclor-1242-4 | (4) | 5.03 | 5.03 | 5.03 | 5.03 | 5.03 | 5.03 | 4.93 | 5.13 |
| Aroclor-1242-5 | (5) | 5.55 | 5.55 | 5.55 | 5.55 | 5.55 | 5.55 | 5.45 | 5.65 |
| Decachlorobiphenyl | | 8.66 | 8.66 | 8.66 | 8.66 | 8.66 | 8.66 | 8.56 | 8.76 |
| Tetrachloro-m-xylene | | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.57 | 3.77 |
| Aroclor-1248-1 | (1) | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.65 | 4.85 |
| Aroclor-1248-2 | (2) | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.89 | 5.09 |
| Aroclor-1248-3 | (3) | 5.03 | 5.03 | 5.03 | 5.03 | 5.03 | 5.03 | 4.93 | 5.13 |
| Aroclor-1248-4 | (4) | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 | 5.20 | 5.10 | 5.30 |
| Aroclor-1248-5 | (5) | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.49 | 5.69 |
| Decachlorobiphenyl | | 8.66 | 8.66 | 8.66 | 8.66 | 8.66 | 8.66 | 8.56 | 8.76 |
| Tetrachloro-m-xylene | | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.57 | 3.77 |
| Aroclor-1254-1 | (1) | 5.55 | 5.55 | 5.55 | 5.55 | 5.55 | 5.55 | 5.45 | 5.65 |
| Aroclor-1254-2 | (2) | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.60 | 5.80 |
| Aroclor-1254-3 | (3) | 6.10 | 6.10 | 6.10 | 6.10 | 6.10 | 6.10 | 6.00 | 6.20 |
| Aroclor-1254-4 | (4) | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.23 | 6.43 |
| Aroclor-1254-5 | (5) | 6.74 | 6.74 | 6.74 | 6.74 | 6.74 | 6.74 | 6.64 | 6.84 |
| Decachlorobiphenyl | | 8.66 | 8.66 | 8.66 | 8.66 | 8.66 | 8.66 | 8.56 | 8.76 |
| Tetrachloro-m-xylene | | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.57 | 3.77 |
| Aroclor-1268-1 | (1) | 7.56 | 7.56 | 7.56 | 7.56 | 7.56 | 7.56 | 7.46 | 7.66 |
| Aroclor-1268-2 | (2) | 7.63 | 7.63 | 7.63 | 7.63 | 7.63 | 7.63 | 7.53 | 7.73 |
| Aroclor-1268-3 | (3) | 7.83 | 7.83 | 7.83 | 7.83 | 7.83 | 7.83 | 7.73 | 7.93 |
| Aroclor-1268-4 | (4) | 8.12 | 8.12 | 8.12 | 8.12 | 8.12 | 8.12 | 8.02 | 8.22 |
| Aroclor-1268-5 | (5) | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.66 | 8.66 | 8.66 | 8.66 | 8.66 | 8.66 | 8.56 | 8.76 |
| Tetrachloro-m-xylene | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.57 | 3.77 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

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

**Contract:** CAMP02
**SDG NO.:** Q2514
**Calibration Date(s):** 06/11/2025 06/11/2025
**Calibration Times:** 10:40 19:07

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

**LAB FILE ID:** CF 1000 = PO111587.D CF 750 = PO111588.D
CF 500 = PO111589.D CF 250 = PO111590.D CF 050 = PO111591.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 220511854 | 230179169 | 244104994 | 255923844 | 242047420 | 238553456 | 6 |
| Aroclor-1016-2 | (2) | 319525390 | 333752768 | 345607420 | 360231916 | 304600680 | 332743635 | 7 |
| Aroclor-1016-3 | (3) | 218699222 | 228973452 | 241664208 | 255477324 | 205889780 | 230140797 | 8 |
| Aroclor-1016-4 | (4) | 174886969 | 182974663 | 191580278 | 204290796 | 173581000 | 185462741 | 7 |
| Aroclor-1016-5 | (5) | 177464979 | 184697736 | 193390828 | 207039800 | 170624200 | 186643509 | 8 |
| Aroclor-1260-1 | (1) | 321794228 | 337454645 | 358028956 | 426721964 | 332609080 | 355321775 | 12 |
| Aroclor-1260-2 | (2) | 433743230 | 452724105 | 474832224 | 506755684 | 494307920 | 472472633 | 6 |
| Aroclor-1260-3 | (3) | 393522712 | 410790572 | 429624930 | 441759844 | 447671720 | 424673956 | 5 |
| Aroclor-1260-4 | (4) | 282329615 | 299358140 | 315388464 | 327883556 | 347275780 | 314447111 | 8 |
| Aroclor-1260-5 | (5) | 781713901 | 810719289 | 832144010 | 867226572 | 826835640 | 823727882 | 4 |
| Decachlorobiphenyl | | 4901811500 | 5109294200 | 5313242720 | 5581051480 | 5340821400 | 5249244260 | 5 |
| Tetrachloro-m-xylene | | 5558158730 | 5743696387 | 5927517640 | 6035511000 | 5532196200 | 5759415991 | 4 |
| Aroclor-1242-1 | (1) | 189891715 | 199375873 | 208390472 | 218835528 | 190726000 | 201443918 | 6 |
| Aroclor-1242-2 | (2) | 269264014 | 283815699 | 295038528 | 310860236 | 249854560 | 281766607 | 8 |
| Aroclor-1242-3 | (3) | 185208795 | 198314185 | 205655032 | 216442696 | 188497160 | 198823574 | 6 |
| Aroclor-1242-4 | (4) | 148912444 | 156458187 | 164284520 | 169958380 | 151372200 | 158197146 | 6 |
| Aroclor-1242-5 | (5) | 154468521 | 166978497 | 176155118 | 183078792 | 155400820 | 167216350 | 8 |
| Decachlorobiphenyl | | 4880711810 | 5081655560 | 5262786220 | 5522085600 | 4928788200 | 5135205478 | 5 |
| Tetrachloro-m-xylene | | 5456812090 | 5681549133 | 5847202300 | 6031977960 | 5214216400 | 5646351577 | 6 |
| Aroclor-1248-1 | (1) | 145884945 | 152954188 | 162370132 | 170480356 | 174637940 | 161265512 | 7 |
| Aroclor-1248-2 | (2) | 193392956 | 203021513 | 214142790 | 221601180 | 245868320 | 215605352 | 9 |
| Aroclor-1248-3 | (3) | 243691383 | 258111092 | 270734920 | 294861996 | 281294320 | 269738742 | 7 |
| Aroclor-1248-4 | (4) | 355904013 | 376445483 | 398411334 | 426549232 | 441707040 | 399803420 | 9 |
| Aroclor-1248-5 | (5) | 249802900 | 267040200 | 283633312 | 302535740 | 301041360 | 280810702 | 8 |
| Decachlorobiphenyl | | 4929616300 | 5142061960 | 5420744260 | 5685225920 | 6003686400 | 5436266968 | 8 |
| Tetrachloro-m-xylene | | 5626812480 | 5847124520 | 6076407960 | 6245856240 | 6492772200 | 6057794680 | 6 |
| Aroclor-1254-1 | (1) | 375291496 | 390445984 | 409053510 | 418326128 | 532236220 | 425070668 | 15 |
| Aroclor-1254-2 | (2) | 334554268 | 347730616 | 365467502 | 374564136 | 475325660 | 379528436 | 15 |
| Aroclor-1254-3 | (3) | 528273778 | 541799637 | 566990470 | 566909168 | 652766900 | 571347991 | 8 |
| Aroclor-1254-4 | (4) | 330811190 | 344690741 | 356705876 | 353681912 | 358524400 | 348882824 | 3 |
| Aroclor-1254-5 | (5) | 481176015 | 491854427 | 511981248 | 504869196 | 570769000 | 512129977 | 7 |
| Decachlorobiphenyl | | 5009210160 | 5167761240 | 5403649020 | 5380598200 | 6191612600 | 5430566244 | 8 |
| Tetrachloro-m-xylene | | 5724223470 | 6030704747 | 6021777640 | 5926293200 | 6653717200 | 6071343251 | 6 |
| Aroclor-1268-1 | (1) | 1033906302 | 1058286327 | 1096846802 | 1155194040 | 1288627080 | 1126572110 | 9 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1268-2 | (2) | 906036168 | 918687719 | 954310100 | 989229764 | 1117888140 | 977230378 | 9 |
| Aroclor-1268-3 | (3) | 760320035 | 776861388 | 800241936 | 843634592 | 917077000 | 819626990 | 8 |
| Aroclor-1268-4 | (4) | 324679419 | 326739527 | 344775706 | 356707332 | 367012100 | 343982817 | 5 |
| Aroclor-1268-5 | (5) | 2115204224 | 2135729147 | 2187245170 | 2254511260 | 2409521900 | 2220442340 | 5 |
| Decachlorobiphenyl | | 8820062120 | 9005455773 | 9339565760 | 9886719320 | 10604055600 | 9531171715 | 8 |
| Tetrachloro-m-xylene | | 5944441710 | 6079157480 | 6269391520 | 6520960080 | 6795679200 | 6321925998 | 5 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

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

**Contract:** CAMP02
**SDG NO.:** Q2514
**Calibration Date(s):** 06/11/2025 06/11/2025
**Calibration Times:** 10:40 19:07

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

**LAB FILE ID:** CF 1000 = PO111587.D CF 750 = PO111588.D
CF 500 = PO111589.D CF 250 = PO111590.D CF 050 = PO111591.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 180839726 | 189231809 | 196263600 | 204676936 | 212823680 | 196767150 | 6 |
| Aroclor-1016-2 | (2) | 269525798 | 277038755 | 287808724 | 296313292 | 293716580 | 284880630 | 4 |
| Aroclor-1016-3 | (3) | 141401189 | 146814288 | 152988496 | 158088464 | 151904200 | 150239327 | 4 |
| Aroclor-1016-4 | (4) | 112384684 | 117918833 | 124672358 | 128074364 | 125886140 | 121787276 | 5 |
| Aroclor-1016-5 | (5) | 145637432 | 151733320 | 158595618 | 164650128 | 175375940 | 159198488 | 7 |
| Aroclor-1260-1 | (1) | 232933493 | 242290633 | 253160914 | 265400132 | 260795120 | 250916058 | 5 |
| Aroclor-1260-2 | (2) | 272930024 | 283658681 | 293882326 | 306210008 | 313403160 | 294016840 | 6 |
| Aroclor-1260-3 | (3) | 248293091 | 256892847 | 265761412 | 279567532 | 285382000 | 267179376 | 6 |
| Aroclor-1260-4 | (4) | 171150736 | 180595663 | 190038668 | 201212768 | 207483680 | 190096303 | 8 |
| Aroclor-1260-5 | (5) | 395557404 | 413148045 | 424269490 | 442012232 | 450112560 | 425019946 | 5 |
| Decachlorobiphenyl | | 1664373530 | 1742647173 | 1808169220 | 1884747160 | 1788371000 | 1777661617 | 5 |
| Tetrachloro-m-xylene | | 5585912110 | 5701804613 | 5792994800 | 5795065440 | 5210609600 | 5617277313 | 4 |
| Aroclor-1242-1 | (1) | 152168573 | 159777101 | 166064310 | 176069720 | 159718720 | 162759685 | 5 |
| Aroclor-1242-2 | (2) | 225834322 | 234974032 | 243469856 | 251904876 | 224121580 | 236060933 | 5 |
| Aroclor-1242-3 | (3) | 119492390 | 123624105 | 129191264 | 135018820 | 120620420 | 125589400 | 5 |
| Aroclor-1242-4 | (4) | 114585972 | 119959547 | 125650318 | 133140376 | 119457260 | 122558695 | 6 |
| Aroclor-1242-5 | (5) | 141763911 | 149312545 | 155170630 | 161394704 | 141804460 | 149889250 | 6 |
| Decachlorobiphenyl | | 1628957800 | 1697321880 | 1768741900 | 1847187720 | 1627451400 | 1713932140 | 6 |
| Tetrachloro-m-xylene | | 5447566380 | 5592119960 | 5668881340 | 5704776560 | 4755587600 | 5433786368 | 7 |
| Aroclor-1248-1 | (1) | 118834435 | 122872489 | 131279096 | 140544936 | 152890960 | 133284383 | 10 |
| Aroclor-1248-2 | (2) | 160429628 | 168292228 | 179033076 | 186589356 | 196432880 | 178155434 | 8 |
| Aroclor-1248-3 | (3) | 169865875 | 177833136 | 187951664 | 198291792 | 213246720 | 189437837 | 9 |
| Aroclor-1248-4 | (4) | 200486745 | 209433661 | 222430720 | 237578848 | 271687720 | 228323539 | 12 |
| Aroclor-1248-5 | (5) | 195830172 | 205941008 | 216128424 | 227994268 | 242930420 | 217764858 | 8 |
| Decachlorobiphenyl | | 1644850390 | 1717850333 | 1805319940 | 1883765920 | 1992763800 | 1808910077 | 8 |
| Tetrachloro-m-xylene | | 5458685310 | 5581768067 | 5723793620 | 5741246280 | 5688025000 | 5638703655 | 2 |
| Aroclor-1254-1 | (1) | 296936934 | 303927659 | 319123596 | 320561628 | 374491800 | 323008323 | 9 |
| Aroclor-1254-2 | (2) | 255453905 | 262352463 | 275811104 | 277251804 | 325698480 | 279313551 | 10 |
| Aroclor-1254-3 | (3) | 392851690 | 400205872 | 416928596 | 411547332 | 473734340 | 419053566 | 8 |
| Aroclor-1254-4 | (4) | 214635691 | 222689013 | 230857806 | 231773900 | 239050800 | 227801442 | 4 |
| Aroclor-1254-5 | (5) | 301414788 | 308036695 | 323788090 | 319823096 | 374889540 | 325590442 | 9 |
| Decachlorobiphenyl | | 1681329490 | 1723219680 | 1812787460 | 1794853560 | 2027152800 | 1807868598 | 7 |
| Tetrachloro-m-xylene | | 5554099840 | 5630982267 | 5714907100 | 5492046840 | 5804310800 | 5639269369 | 2 |
| Aroclor-1268-1 | (1) | 439189744 | 444186417 | 457911336 | 484649164 | 566087560 | 478404844 | 11 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1268-2 | (2) | 385991375 | 390586096 | 399904992 | 422505028 | 483522600 | 416502018 | 10 |
| Aroclor-1268-3 | (3) | 289581994 | 294897103 | 304525684 | 324673600 | 371079040 | 316951484 | 10 |
| Aroclor-1268-4 | (4) | 108353442 | 109112276 | 112870114 | 119224140 | 128726300 | 115657254 | 7 |
| Aroclor-1268-5 | (5) | 686403257 | 694858911 | 706410288 | 735443232 | 800112960 | 724645730 | 6 |
| Decachlorobiphenyl | | 2944164530 | 2997882747 | 3096344980 | 3278501400 | 3473378600 | 3158054451 | 7 |
| Tetrachloro-m-xylene | | 5557311950 | 5631320067 | 5696482640 | 5807035360 | 5718379000 | 5682105803 | 2 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Instrument ID:** ECD_O **Date(s) Analyzed:** 06/11/2025 06/11/2025

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

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Aroclor-1221 | 500 | 1 | 3.89 | 3.79 | 3.99 | 87078800 |
| | | 2 | 3.98 | 3.88 | 4.08 | 64167800 |
| | | 3 | 4.05 | 3.95 | 4.15 | 195036000 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 4.05 | 3.95 | 4.15 | 151749000 |
| | | 2 | 4.54 | 4.44 | 4.64 | 86221200 |
| | | 3 | 4.79 | 4.69 | 4.89 | 162881000 |
| | | 4 | 4.96 | 4.86 | 5.06 | 87019200 |
| | | 5 | 5.00 | 4.90 | 5.10 | 56580600 |
| Aroclor-1262 | 500 | 1 | 6.82 | 6.72 | 6.92 | 609876000 |
| | | 2 | 7.32 | 7.22 | 7.42 | 941402000 |
| | | 3 | 7.60 | 7.50 | 7.70 | 396622000 |
| | | 4 | 7.66 | 7.56 | 7.76 | 657002000 |
| | | 5 | 8.16 | 8.06 | 8.26 | 304668000 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Instrument ID:** ECD_O **Date(s) Analyzed:** 06/11/2025 06/11/2025

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

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Aroclor-1221 | 500 | 1 | 3.88 | 3.78 | 3.98 | 74673800 |
| | | 2 | 3.97 | 3.87 | 4.07 | 55948800 |
| | | 3 | 4.04 | 3.94 | 4.14 | 171830000 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 4.04 | 3.94 | 4.14 | 132990000 |
| | | 2 | 4.77 | 4.67 | 4.87 | 131791000 |
| | | 3 | 4.94 | 4.84 | 5.04 | 69118200 |
| | | 4 | 5.03 | 4.93 | 5.13 | 60484000 |
| | | 5 | 5.20 | 5.10 | 5.30 | 66414600 |
| Aroclor-1262 | 500 | 1 | 6.78 | 6.68 | 6.88 | 337664000 |
| | | 2 | 7.28 | 7.18 | 7.38 | 465774000 |
| | | 3 | 7.56 | 7.46 | 7.66 | 166285000 |
| | | 4 | 7.63 | 7.53 | 7.73 | 277070000 |
| | | 5 | 8.12 | 8.02 | 8.22 | 101619000 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/07/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

**Continuing Calib Time:** 20:15 **Initial Calibration Time(s):** 10:40 19:07

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.76 | 4.77 | 4.67 | 4.87 | 0.01 |
| Aroclor-1016-2 | (2) | 4.78 | 4.78 | 4.68 | 4.88 | 0.00 |
| Aroclor-1016-3 | (3) | 4.84 | 4.84 | 4.74 | 4.94 | 0.00 |
| Aroclor-1016-4 | (4) | 4.96 | 4.96 | 4.86 | 5.06 | 0.00 |
| Aroclor-1016-5 | (5) | 5.21 | 5.22 | 5.12 | 5.32 | 0.01 |
| Aroclor-1260-1 | (1) | 6.25 | 6.26 | 6.16 | 6.36 | 0.01 |
| Aroclor-1260-2 | (2) | 6.44 | 6.45 | 6.35 | 6.55 | 0.01 |
| Aroclor-1260-3 | (3) | 6.81 | 6.81 | 6.71 | 6.91 | 0.00 |
| Aroclor-1260-4 | (4) | 7.07 | 7.07 | 6.97 | 7.17 | 0.00 |
| Aroclor-1260-5 | (5) | 7.31 | 7.32 | 7.22 | 7.42 | 0.01 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.58 | 3.78 | 0.01 |
| Decachlorobiphenyl | | 8.70 | 8.71 | 8.61 | 8.81 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/07/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

**Continuing Calib Time:** 20:15 **Initial Calibration Time(s):** 10:40 19:07

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.75 | 4.75 | 4.65 | 4.85 | 0.01 |
| Aroclor-1016-2 | (2) | 4.76 | 4.77 | 4.67 | 4.87 | 0.01 |
| Aroclor-1016-3 | (3) | 4.94 | 4.94 | 4.84 | 5.04 | 0.00 |
| Aroclor-1016-4 | (4) | 4.98 | 4.99 | 4.89 | 5.09 | 0.01 |
| Aroclor-1016-5 | (5) | 5.19 | 5.20 | 5.10 | 5.30 | 0.01 |
| Aroclor-1260-1 | (1) | 6.22 | 6.23 | 6.13 | 6.33 | 0.01 |
| Aroclor-1260-2 | (2) | 6.41 | 6.42 | 6.32 | 6.52 | 0.01 |
| Aroclor-1260-3 | (3) | 6.56 | 6.57 | 6.47 | 6.67 | 0.01 |
| Aroclor-1260-4 | (4) | 7.03 | 7.04 | 6.94 | 7.14 | 0.01 |
| Aroclor-1260-5 | (5) | 7.27 | 7.28 | 7.18 | 7.38 | 0.01 |
| Tetrachloro-m-xylene | | 3.67 | 3.67 | 3.57 | 3.77 | 0.00 |
| Decachlorobiphenyl | | 8.65 | 8.66 | 8.56 | 8.76 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 07/07/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO112052.D **Time Analyzed:** 20:15

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.762 | 4.666 | 4.866 | 451.720 | 500.000 | -9.7 |
| Aroclor-1016-2 | 4.781 | 4.684 | 4.884 | 468.410 | 500.000 | -6.3 |
| Aroclor-1016-3 | 4.838 | 4.741 | 4.941 | 442.310 | 500.000 | -11.5 |
| Aroclor-1016-4 | 4.957 | 4.861 | 5.061 | 447.560 | 500.000 | -10.5 |
| Aroclor-1016-5 | 5.214 | 5.118 | 5.318 | 471.760 | 500.000 | -5.6 |
| Aroclor-1260-1 | 6.253 | 6.157 | 6.357 | 457.590 | 500.000 | -8.5 |
| Aroclor-1260-2 | 6.441 | 6.346 | 6.546 | 508.720 | 500.000 | 1.7 |
| Aroclor-1260-3 | 6.807 | 6.713 | 6.913 | 532.640 | 500.000 | 6.5 |
| Aroclor-1260-4 | 7.067 | 6.972 | 7.172 | 520.660 | 500.000 | 4.1 |
| Aroclor-1260-5 | 7.310 | 7.216 | 7.416 | 515.130 | 500.000 | 3.0 |
| Decachlorobiphenyl | 8.704 | 8.612 | 8.812 | 41.270 | 50.000 | -17.5 |
| Tetrachloro-m-xylene | 3.675 | 3.577 | 3.777 | 51.660 | 50.000 | 3.3 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 07/07/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO112052.D **Time Analyzed:** 20:15

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.745 | 4.651 | 4.851 | 505.180 | 500.000 | 1.0 |
| Aroclor-1016-2 | 4.764 | 4.669 | 4.869 | 509.460 | 500.000 | 1.9 |
| Aroclor-1016-3 | 4.939 | 4.844 | 5.044 | 498.340 | 500.000 | -0.3 |
| Aroclor-1016-4 | 4.981 | 4.887 | 5.087 | 498.070 | 500.000 | -0.4 |
| Aroclor-1016-5 | 5.194 | 5.099 | 5.299 | 492.500 | 500.000 | -1.5 |
| Aroclor-1260-1 | 6.223 | 6.129 | 6.329 | 485.010 | 500.000 | -3.0 |
| Aroclor-1260-2 | 6.411 | 6.316 | 6.516 | 504.260 | 500.000 | 0.9 |
| Aroclor-1260-3 | 6.562 | 6.469 | 6.669 | 466.740 | 500.000 | -6.7 |
| Aroclor-1260-4 | 7.032 | 6.939 | 7.139 | 450.960 | 500.000 | -9.8 |
| Aroclor-1260-5 | 7.274 | 7.181 | 7.381 | 459.050 | 500.000 | -8.2 |
| Decachlorobiphenyl | 8.651 | 8.561 | 8.761 | 44.280 | 50.000 | -11.4 |
| Tetrachloro-m-xylene | 3.669 | 3.573 | 3.773 | 50.200 | 50.000 | 0.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/08/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

**Continuing Calib Time:** 03:54 **Initial Calibration Time(s):** 10:40 19:07

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.76 | 4.77 | 4.67 | 4.87 | 0.01 |
| Aroclor-1016-2 | (2) | 4.78 | 4.78 | 4.68 | 4.88 | 0.00 |
| Aroclor-1016-3 | (3) | 4.84 | 4.84 | 4.74 | 4.94 | 0.00 |
| Aroclor-1016-4 | (4) | 4.96 | 4.96 | 4.86 | 5.06 | 0.00 |
| Aroclor-1016-5 | (5) | 5.21 | 5.22 | 5.12 | 5.32 | 0.01 |
| Aroclor-1260-1 | (1) | 6.25 | 6.26 | 6.16 | 6.36 | 0.01 |
| Aroclor-1260-2 | (2) | 6.44 | 6.45 | 6.35 | 6.55 | 0.01 |
| Aroclor-1260-3 | (3) | 6.81 | 6.81 | 6.71 | 6.91 | 0.00 |
| Aroclor-1260-4 | (4) | 7.07 | 7.07 | 6.97 | 7.17 | 0.00 |
| Aroclor-1260-5 | (5) | 7.31 | 7.32 | 7.22 | 7.42 | 0.01 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.58 | 3.78 | 0.01 |
| Decachlorobiphenyl | | 8.70 | 8.71 | 8.61 | 8.81 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/08/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

**Continuing Calib Time:** 03:54 **Initial Calibration Time(s):** 10:40 19:07

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.74 | 4.75 | 4.65 | 4.85 | 0.01 |
| Aroclor-1016-2 | (2) | 4.76 | 4.77 | 4.67 | 4.87 | 0.01 |
| Aroclor-1016-3 | (3) | 4.94 | 4.94 | 4.84 | 5.04 | 0.00 |
| Aroclor-1016-4 | (4) | 4.98 | 4.99 | 4.89 | 5.09 | 0.01 |
| Aroclor-1016-5 | (5) | 5.19 | 5.20 | 5.10 | 5.30 | 0.01 |
| Aroclor-1260-1 | (1) | 6.22 | 6.23 | 6.13 | 6.33 | 0.01 |
| Aroclor-1260-2 | (2) | 6.41 | 6.42 | 6.32 | 6.52 | 0.01 |
| Aroclor-1260-3 | (3) | 6.56 | 6.57 | 6.47 | 6.67 | 0.01 |
| Aroclor-1260-4 | (4) | 7.03 | 7.04 | 6.94 | 7.14 | 0.01 |
| Aroclor-1260-5 | (5) | 7.27 | 7.28 | 7.18 | 7.38 | 0.01 |
| Tetrachloro-m-xylene | | 3.67 | 3.67 | 3.57 | 3.77 | 0.00 |
| Decachlorobiphenyl | | 8.65 | 8.66 | 8.56 | 8.76 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 07/08/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO112067.D **Time Analyzed:** 03:54

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.761 | 4.666 | 4.866 | 528.310 | 500.000 | 5.7 |
| Aroclor-1016-2 | 4.780 | 4.684 | 4.884 | 545.080 | 500.000 | 9.0 |
| Aroclor-1016-3 | 4.837 | 4.741 | 4.941 | 530.690 | 500.000 | 6.1 |
| Aroclor-1016-4 | 4.956 | 4.861 | 5.061 | 532.770 | 500.000 | 6.6 |
| Aroclor-1016-5 | 5.213 | 5.118 | 5.318 | 522.850 | 500.000 | 4.6 |
| Aroclor-1260-1 | 6.252 | 6.157 | 6.357 | 525.380 | 500.000 | 5.1 |
| Aroclor-1260-2 | 6.441 | 6.346 | 6.546 | 598.920 | 500.000 | 19.8 |
| Aroclor-1260-3 | 6.808 | 6.713 | 6.913 | 541.620 | 500.000 | 8.3 |
| Aroclor-1260-4 | 7.067 | 6.972 | 7.172 | 543.400 | 500.000 | 8.7 |
| Aroclor-1260-5 | 7.309 | 7.216 | 7.416 | 584.810 | 500.000 | 17.0 |
| Decachlorobiphenyl | 8.703 | 8.612 | 8.812 | 43.520 | 50.000 | -13.0 |
| Tetrachloro-m-xylene | 3.675 | 3.577 | 3.777 | 60.770 | 50.000 | 21.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 07/08/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO112067.D **Time Analyzed:** 03:54

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.744 | 4.651 | 4.851 | 552.450 | 500.000 | 10.5 |
| Aroclor-1016-2 | 4.762 | 4.669 | 4.869 | 563.100 | 500.000 | 12.6 |
| Aroclor-1016-3 | 4.937 | 4.844 | 5.044 | 541.710 | 500.000 | 8.3 |
| Aroclor-1016-4 | 4.980 | 4.887 | 5.087 | 478.710 | 500.000 | -4.3 |
| Aroclor-1016-5 | 5.192 | 5.099 | 5.299 | 596.930 | 500.000 | 19.4 |
| Aroclor-1260-1 | 6.221 | 6.129 | 6.329 | 591.390 | 500.000 | 18.3 |
| Aroclor-1260-2 | 6.409 | 6.316 | 6.516 | 591.380 | 500.000 | 18.3 |
| Aroclor-1260-3 | 6.560 | 6.469 | 6.669 | 531.150 | 500.000 | 6.2 |
| Aroclor-1260-4 | 7.031 | 6.939 | 7.139 | 498.690 | 500.000 | -0.3 |
| Aroclor-1260-5 | 7.272 | 7.181 | 7.381 | 507.110 | 500.000 | 1.4 |
| Decachlorobiphenyl | 8.650 | 8.561 | 8.761 | 48.100 | 50.000 | -3.8 |
| Tetrachloro-m-xylene | 3.668 | 3.573 | 3.773 | 54.860 | 50.000 | 9.7 |

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Fax : 908 789 8922



## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/08/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

**Continuing Calib Time:** 10:09 **Initial Calibration Time(s):** 10:40 19:07

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.76 | 4.77 | 4.67 | 4.87 | 0.01 |
| Aroclor-1016-2 | (2) | 4.78 | 4.78 | 4.68 | 4.88 | 0.00 |
| Aroclor-1016-3 | (3) | 4.84 | 4.84 | 4.74 | 4.94 | 0.00 |
| Aroclor-1016-4 | (4) | 4.96 | 4.96 | 4.86 | 5.06 | 0.00 |
| Aroclor-1016-5 | (5) | 5.22 | 5.22 | 5.12 | 5.32 | 0.00 |
| Aroclor-1260-1 | (1) | 6.25 | 6.26 | 6.16 | 6.36 | 0.01 |
| Aroclor-1260-2 | (2) | 6.44 | 6.45 | 6.35 | 6.55 | 0.01 |
| Aroclor-1260-3 | (3) | 6.81 | 6.81 | 6.71 | 6.91 | 0.00 |
| Aroclor-1260-4 | (4) | 7.07 | 7.07 | 6.97 | 7.17 | 0.00 |
| Aroclor-1260-5 | (5) | 7.31 | 7.32 | 7.22 | 7.42 | 0.01 |
| Tetrachloro-m-xylene | | 3.68 | 3.68 | 3.58 | 3.78 | 0.00 |
| Decachlorobiphenyl | | 8.71 | 8.71 | 8.61 | 8.81 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/08/2025 **Initial Calibration Date(s):** 06/11/2025 06/11/2025

**Continuing Calib Time:** 10:09 **Initial Calibration Time(s):** 10:40 19:07

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.74 | 4.75 | 4.65 | 4.85 | 0.01 |
| Aroclor-1016-2 | (2) | 4.76 | 4.77 | 4.67 | 4.87 | 0.01 |
| Aroclor-1016-3 | (3) | 4.94 | 4.94 | 4.84 | 5.04 | 0.00 |
| Aroclor-1016-4 | (4) | 4.98 | 4.99 | 4.89 | 5.09 | 0.01 |
| Aroclor-1016-5 | (5) | 5.19 | 5.20 | 5.10 | 5.30 | 0.01 |
| Aroclor-1260-1 | (1) | 6.22 | 6.23 | 6.13 | 6.33 | 0.01 |
| Aroclor-1260-2 | (2) | 6.41 | 6.42 | 6.32 | 6.52 | 0.01 |
| Aroclor-1260-3 | (3) | 6.56 | 6.57 | 6.47 | 6.67 | 0.01 |
| Aroclor-1260-4 | (4) | 7.03 | 7.04 | 6.94 | 7.14 | 0.01 |
| Aroclor-1260-5 | (5) | 7.27 | 7.28 | 7.18 | 7.38 | 0.01 |
| Tetrachloro-m-xylene | | 3.67 | 3.67 | 3.57 | 3.77 | 0.00 |
| Decachlorobiphenyl | | 8.65 | 8.66 | 8.56 | 8.76 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 07/08/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO112083.D **Time Analyzed:** 10:09

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.762 | 4.666 | 4.866 | 597.960 | 500.000 | 19.6 |
| Aroclor-1016-2 | 4.780 | 4.684 | 4.884 | 599.020 | 500.000 | 19.8 |
| Aroclor-1016-3 | 4.837 | 4.741 | 4.941 | 561.710 | 500.000 | 12.3 |
| Aroclor-1016-4 | 4.957 | 4.861 | 5.061 | 574.730 | 500.000 | 14.9 |
| Aroclor-1016-5 | 5.215 | 5.118 | 5.318 | 566.580 | 500.000 | 13.3 |
| Aroclor-1260-1 | 6.252 | 6.157 | 6.357 | 563.120 | 500.000 | 12.6 |
| Aroclor-1260-2 | 6.442 | 6.346 | 6.546 | 599.800 | 500.000 | 20.0 |
| Aroclor-1260-3 | 6.808 | 6.713 | 6.913 | 597.780 | 500.000 | 19.6 |
| Aroclor-1260-4 | 7.067 | 6.972 | 7.172 | 548.080 | 500.000 | 9.6 |
| Aroclor-1260-5 | 7.311 | 7.216 | 7.416 | 627.280 | 500.000 | 25.5 |
| Decachlorobiphenyl | 8.705 | 8.612 | 8.812 | 52.570 | 50.000 | 5.1 |
| Tetrachloro-m-xylene | 3.676 | 3.577 | 3.777 | 71.620 | 50.000 | 43.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/11/2025 06/11/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 07/08/2025

**Lab Sample No.:** AR1660CCC500 **Data File :** PO112083.D **Time Analyzed:** 10:09

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.743 | 4.651 | 4.851 | 466.410 | 500.000 | -6.7 |
| Aroclor-1016-2 | 4.761 | 4.669 | 4.869 | 474.240 | 500.000 | -5.2 |
| Aroclor-1016-3 | 4.937 | 4.844 | 5.044 | 455.480 | 500.000 | -8.9 |
| Aroclor-1016-4 | 4.979 | 4.887 | 5.087 | 452.330 | 500.000 | -9.5 |
| Aroclor-1016-5 | 5.191 | 5.099 | 5.299 | 441.610 | 500.000 | -11.7 |
| Aroclor-1260-1 | 6.221 | 6.129 | 6.329 | 441.990 | 500.000 | -11.6 |
| Aroclor-1260-2 | 6.409 | 6.316 | 6.516 | 464.790 | 500.000 | -7.0 |
| Aroclor-1260-3 | 6.560 | 6.469 | 6.669 | 435.190 | 500.000 | -13.0 |
| Aroclor-1260-4 | 7.031 | 6.939 | 7.139 | 432.900 | 500.000 | -13.4 |
| Aroclor-1260-5 | 7.272 | 7.181 | 7.381 | 431.230 | 500.000 | -13.8 |
| Decachlorobiphenyl | 8.650 | 8.561 | 8.761 | 40.190 | 50.000 | -19.6 |
| Tetrachloro-m-xylene | 3.668 | 3.573 | 3.773 | 46.280 | 50.000 | -7.4 |

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# Analytical Sequence

**Client:** CDM Smith **SDG No.:** Q2514

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

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/11/2025 06/11/2025

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

| CLIENT ID | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 06/11/2025 | 10:21 | PO111586.D | 8.71 | 3.68 |
| AR1660ICC1000 | AR1660ICC1000 | 06/11/2025 | 10:40 | PO111587.D | 8.71 | 3.68 |
| AR1660ICC750 | AR1660ICC750 | 06/11/2025 | 10:58 | PO111588.D | 8.71 | 3.68 |
| AR1660ICC500 | AR1660ICC500 | 06/11/2025 | 11:17 | PO111589.D | 8.71 | 3.68 |
| AR1660ICC250 | AR1660ICC250 | 06/11/2025 | 11:35 | PO111590.D | 8.71 | 3.68 |
| AR1660ICC050 | AR1660ICC050 | 06/11/2025 | 11:53 | PO111591.D | 8.71 | 3.68 |
| AR1221ICC500 | AR1221ICC500 | 06/11/2025 | 12:12 | PO111592.D | 8.71 | 3.68 |
| AR1232ICC500 | AR1232ICC500 | 06/11/2025 | 12:30 | PO111593.D | 8.71 | 3.68 |
| AR1242ICC1000 | AR1242ICC1000 | 06/11/2025 | 12:48 | PO111594.D | 8.71 | 3.68 |
| AR1242ICC750 | AR1242ICC750 | 06/11/2025 | 13:07 | PO111595.D | 8.71 | 3.68 |
| AR1242ICC500 | AR1242ICC500 | 06/11/2025 | 13:25 | PO111596.D | 8.71 | 3.68 |
| AR1242ICC250 | AR1242ICC250 | 06/11/2025 | 13:44 | PO111597.D | 8.71 | 3.68 |
| AR1242ICC050 | AR1242ICC050 | 06/11/2025 | 14:02 | PO111598.D | 8.71 | 3.68 |
| AR1248ICC1000 | AR1248ICC1000 | 06/11/2025 | 14:20 | PO111599.D | 8.71 | 3.68 |
| AR1248ICC750 | AR1248ICC750 | 06/11/2025 | 14:39 | PO111600.D | 8.71 | 3.68 |
| AR1248ICC500 | AR1248ICC500 | 06/11/2025 | 15:14 | PO111601.D | 8.71 | 3.68 |
| AR1248ICC250 | AR1248ICC250 | 06/11/2025 | 15:32 | PO111602.D | 8.71 | 3.68 |
| AR1248ICC050 | AR1248ICC050 | 06/11/2025 | 15:49 | PO111603.D | 8.71 | 3.68 |
| AR1254ICC1000 | AR1254ICC1000 | 06/11/2025 | 16:06 | PO111604.D | 8.71 | 3.68 |
| AR1254ICC750 | AR1254ICC750 | 06/11/2025 | 16:25 | PO111605.D | 8.71 | 3.68 |
| AR1254ICC500 | AR1254ICC500 | 06/11/2025 | 16:43 | PO111606.D | 8.71 | 3.68 |
| AR1254ICC250 | AR1254ICC250 | 06/11/2025 | 17:00 | PO111607.D | 8.71 | 3.68 |
| AR1254ICC050 | AR1254ICC050 | 06/11/2025 | 17:18 | PO111608.D | 8.71 | 3.68 |
| AR1262ICC500 | AR1262ICC500 | 06/11/2025 | 17:36 | PO111609.D | 8.71 | 3.68 |
| AR1268ICC1000 | AR1268ICC1000 | 06/11/2025 | 17:55 | PO111610.D | 8.71 | 3.68 |
| AR1268ICC750 | AR1268ICC750 | 06/11/2025 | 18:13 | PO111611.D | 8.71 | 3.68 |
| AR1268ICC500 | AR1268ICC500 | 06/11/2025 | 18:31 | PO111612.D | 8.71 | 3.68 |
| AR1268ICC250 | AR1268ICC250 | 06/11/2025 | 18:50 | PO111613.D | 8.71 | 3.68 |
| AR1268ICC050 | AR1268ICC050 | 06/11/2025 | 19:07 | PO111614.D | 8.71 | 3.68 |
| AR1660CCC500 | AR1660CCC500 | 07/07/2025 | 20:15 | PO112052.D | 8.70 | 3.68 |
| I.BLK | I.BLK | 07/07/2025 | 21:44 | PO112056.D | 8.71 | 3.67 |
| PB168735BL | PB168735BL | 07/07/2025 | 22:01 | PO112057.D | 8.70 | 3.67 |
| PB168735BS | PB168735BS | 07/07/2025 | 22:20 | PO112058.D | 8.70 | 3.67 |
| HR-3-070325MS | Q2513-03MS | 07/07/2025 | 23:52 | PO112063.D | 8.70 | 3.67 |
| HR-3-070325MSD | Q2513-03MSD | 07/08/2025 | 00:10 | PO112064.D | 8.71 | 3.67 |
| TP-92 | Q2514-01 | 07/08/2025 | 00:29 | PO112065.D | 8.71 | 3.67 |
| TP-93 | Q2514-02 | 07/08/2025 | 00:46 | PO112066.D | 8.70 | 3.67 |
| AR1660CCC500 | AR1660CCC500 | 07/08/2025 | 03:54 | PO112067.D | 8.70 | 3.68 |
| I.BLK | I.BLK | 07/08/2025 | 05:26 | PO112072.D | 8.71 | 3.67 |
| TP-94 | Q2514-03 | 07/08/2025 | 05:44 | PO112073.D | 8.70 | 3.67 |
| TP-96 | Q2514-04 | 07/08/2025 | 06:02 | PO112074.D | 8.70 | 3.68 |
| TP-97 | Q2514-05 | 07/08/2025 | 06:21 | PO112075.D | 8.71 | 3.68 |

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## Analytical Sequence

| | | | | | | |
|---|---|---|---|---|---|---|
| TP-103 | Q2514-06 | 07/08/2025 | 06:39 | PO112076.D | 8.70 | 3.67 |
| TP-36 | Q2514-07 | 07/08/2025 | 06:58 | PO112077.D | 8.70 | 3.67 |
| TP-78 | Q2514-08 | 07/08/2025 | 07:16 | PO112078.D | 8.70 | 3.67 |
| TP-81 | Q2514-09 | 07/08/2025 | 07:35 | PO112079.D | 8.70 | 3.67 |
| TP-90 | Q2514-10 | 07/08/2025 | 07:53 | PO112080.D | 8.70 | 3.67 |
| AR1660CCC500 | AR1660CCC500 | 07/08/2025 | 10:09 | PO112083.D | 8.71 | 3.68 |
| I.BLK | I.BLK | 07/08/2025 | 11:26 | PO112085.D | 8.71 | 3.68 |

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# Analytical Sequence

**Client:** CDM Smith **SDG No.:** Q2514

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

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 06/11/2025 06/11/2025

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

| CLIENT ID | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 06/11/2025 | 10:21 | PO111586.D | 8.66 | 3.67 |
| AR1660ICC1000 | AR1660ICC1000 | 06/11/2025 | 10:40 | PO111587.D | 8.66 | 3.67 |
| AR1660ICC750 | AR1660ICC750 | 06/11/2025 | 10:58 | PO111588.D | 8.66 | 3.67 |
| AR1660ICC500 | AR1660ICC500 | 06/11/2025 | 11:17 | PO111589.D | 8.66 | 3.67 |
| AR1660ICC250 | AR1660ICC250 | 06/11/2025 | 11:35 | PO111590.D | 8.66 | 3.67 |
| AR1660ICC050 | AR1660ICC050 | 06/11/2025 | 11:53 | PO111591.D | 8.66 | 3.67 |
| AR1221ICC500 | AR1221ICC500 | 06/11/2025 | 12:12 | PO111592.D | 8.66 | 3.67 |
| AR1232ICC500 | AR1232ICC500 | 06/11/2025 | 12:30 | PO111593.D | 8.66 | 3.67 |
| AR1242ICC1000 | AR1242ICC1000 | 06/11/2025 | 12:48 | PO111594.D | 8.66 | 3.67 |
| AR1242ICC750 | AR1242ICC750 | 06/11/2025 | 13:07 | PO111595.D | 8.66 | 3.67 |
| AR1242ICC500 | AR1242ICC500 | 06/11/2025 | 13:25 | PO111596.D | 8.66 | 3.67 |
| AR1242ICC250 | AR1242ICC250 | 06/11/2025 | 13:44 | PO111597.D | 8.66 | 3.67 |
| AR1242ICC050 | AR1242ICC050 | 06/11/2025 | 14:02 | PO111598.D | 8.66 | 3.67 |
| AR1248ICC1000 | AR1248ICC1000 | 06/11/2025 | 14:20 | PO111599.D | 8.66 | 3.67 |
| AR1248ICC750 | AR1248ICC750 | 06/11/2025 | 14:39 | PO111600.D | 8.66 | 3.67 |
| AR1248ICC500 | AR1248ICC500 | 06/11/2025 | 15:14 | PO111601.D | 8.66 | 3.67 |
| AR1248ICC250 | AR1248ICC250 | 06/11/2025 | 15:32 | PO111602.D | 8.66 | 3.67 |
| AR1248ICC050 | AR1248ICC050 | 06/11/2025 | 15:49 | PO111603.D | 8.66 | 3.67 |
| AR1254ICC1000 | AR1254ICC1000 | 06/11/2025 | 16:06 | PO111604.D | 8.66 | 3.67 |
| AR1254ICC750 | AR1254ICC750 | 06/11/2025 | 16:25 | PO111605.D | 8.66 | 3.67 |
| AR1254ICC500 | AR1254ICC500 | 06/11/2025 | 16:43 | PO111606.D | 8.66 | 3.67 |
| AR1254ICC250 | AR1254ICC250 | 06/11/2025 | 17:00 | PO111607.D | 8.66 | 3.67 |
| AR1254ICC050 | AR1254ICC050 | 06/11/2025 | 17:18 | PO111608.D | 8.66 | 3.67 |
| AR1262ICC500 | AR1262ICC500 | 06/11/2025 | 17:36 | PO111609.D | 8.66 | 3.67 |
| AR1268ICC1000 | AR1268ICC1000 | 06/11/2025 | 17:55 | PO111610.D | 8.66 | 3.67 |
| AR1268ICC750 | AR1268ICC750 | 06/11/2025 | 18:13 | PO111611.D | 8.66 | 3.67 |
| AR1268ICC500 | AR1268ICC500 | 06/11/2025 | 18:31 | PO111612.D | 8.66 | 3.67 |
| AR1268ICC250 | AR1268ICC250 | 06/11/2025 | 18:50 | PO111613.D | 8.66 | 3.67 |
| AR1268ICC050 | AR1268ICC050 | 06/11/2025 | 19:07 | PO111614.D | 8.66 | 3.67 |
| AR1660CCC500 | AR1660CCC500 | 07/07/2025 | 20:15 | PO112052.D | 8.65 | 3.67 |
| I.BLK | I.BLK | 07/07/2025 | 21:44 | PO112056.D | 8.65 | 3.67 |
| PB168735BL | PB168735BL | 07/07/2025 | 22:01 | PO112057.D | 8.65 | 3.67 |
| PB168735BS | PB168735BS | 07/07/2025 | 22:20 | PO112058.D | 8.65 | 3.67 |
| HR-3-070325MS | Q2513-03MS | 07/07/2025 | 23:52 | PO112063.D | 8.65 | 3.67 |
| HR-3-070325MSD | Q2513-03MSD | 07/08/2025 | 00:10 | PO112064.D | 8.65 | 3.67 |
| TP-92 | Q2514-01 | 07/08/2025 | 00:29 | PO112065.D | 8.65 | 3.67 |
| TP-93 | Q2514-02 | 07/08/2025 | 00:46 | PO112066.D | 8.65 | 3.67 |
| AR1660CCC500 | AR1660CCC500 | 07/08/2025 | 03:54 | PO112067.D | 8.65 | 3.67 |
| I.BLK | I.BLK | 07/08/2025 | 05:26 | PO112072.D | 8.65 | 3.67 |
| TP-94 | Q2514-03 | 07/08/2025 | 05:44 | PO112073.D | 8.65 | 3.67 |
| TP-96 | Q2514-04 | 07/08/2025 | 06:02 | PO112074.D | 8.65 | 3.67 |
| TP-97 | Q2514-05 | 07/08/2025 | 06:21 | PO112075.D | 8.65 | 3.67 |

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# Analytical Sequence

| | | | | | | |
|---|---|---|---|---|---|---|
| TP-103 | Q2514-06 | 07/08/2025 | 06:39 | PO112076.D | 8.65 | 3.67 |
| TP-36 | Q2514-07 | 07/08/2025 | 06:58 | PO112077.D | 8.65 | 3.67 |
| TP-78 | Q2514-08 | 07/08/2025 | 07:16 | PO112078.D | 8.65 | 3.67 |
| TP-81 | Q2514-09 | 07/08/2025 | 07:35 | PO112079.D | 8.65 | 3.67 |
| TP-90 | Q2514-10 | 07/08/2025 | 07:53 | PO112080.D | 8.65 | 3.67 |
| AR1660CCC500 | AR1660CCC500 | 07/08/2025 | 10:09 | PO112083.D | 8.65 | 3.67 |
| I.BLK | I.BLK | 07/08/2025 | 11:26 | PO112085.D | 8.65 | 3.67 |

# QC SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | CDM Smith | | Date Collected: | | |
| Project: | South River WM Replacement | | Date Received: | | |
| Client Sample ID: | PB168735BL | | SDG No.: | Q2514 | |
| Lab Sample ID: | PB168735BL | | 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 |
|---|---|---|---|---|
| PO112057.D | 1 | 07/07/25 08:30 | 07/07/25 22:01 | PB168735 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.90 | U | 3.90 | 17.0 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.00 | U | 4.00 | 17.0 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.70 | U | 3.70 | 17.0 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.00 | U | 4.00 | 17.0 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 5.90 | U | 5.90 | 17.0 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.20 | U | 3.20 | 17.0 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.00 | U | 5.00 | 17.0 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.60 | U | 3.60 | 17.0 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 3.20 | U | 3.20 | 17.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.5 | | 32 - 144 | 103% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 18.5 | | 32 - 175 | 92% | SPK: 20 |

Comments:

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

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

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 06/11/25 |
| Project: | South River WM Replacement | Date Received: | 06/11/25 |
| Client Sample ID: | PIBLK-PO111586.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PO111586.D | Matrix: | WATER |
| Analytical Method: | 8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO111586.D | 1 | | 06/11/25 | po061125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.0 | | 60 - 140 | 95% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 20.5 | | 60 - 140 | 103% | SPK: 20 |

Comments:

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

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/07/25 |
| Project: | South River WM Replacement | Date Received: | 07/07/25 |
| Client Sample ID: | PIBLK-PO112056.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PO112056.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 |
|---|---|---|---|---|
| PO112056.D | 1 | | 07/07/25 | po070725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 16.9 | | 60 - 140 | 85% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 16.8 | | 60 - 140 | 84% | SPK: 20 |

Comments:

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/08/25 |
| Project: | South River WM Replacement | Date Received: | 07/08/25 |
| Client Sample ID: | PIBLK-PO112072.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PO112072.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 |
|---|---|---|---|---|
| PO112072.D | 1 | | 07/08/25 | po070725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.097 | U | 0.097 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.13 | U | 0.13 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.096 | U | 0.096 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.071 | U | 0.071 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.094 | U | 0.094 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.081 | U | 0.081 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.11 | U | 0.11 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 18.3 | | 60 - 140 | 92% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 16.1 | | 60 - 140 | 80% | SPK: 20 |

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: | 07/08/25 |
| Project: | South River WM Replacement | Date Received: | 07/08/25 |
| Client Sample ID: | PIBLK-PO112085.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PO112085.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 |
|---|---|---|---|---|
| PO112085.D | 1 | | 07/08/25 | PO070725 |

| 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 | 11.4 | * | 60 - 140 | 57% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 11.1 | * | 60 - 140 | 55% | SPK: 20 |

Comments:

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() = 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: | PB168735BS | SDG No.: | Q2514 |
| Lab Sample ID: | PB168735BS | 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 |
|---|---|---|---|---|
| PO112058.D | 1 | 07/07/25 08:30 | 07/07/25 22:20 | PB168735 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 150 | | 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 | 163 | | 3.20 | 17.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.5 | | 32 - 144 | 98% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 18.5 | | 32 - 175 | 92% | SPK: 20 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | HR-3-070325MS | SDG No.: | Q2514 |
| Lab Sample ID: | Q2513-03MS | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 94.4 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 |
|---|---|---|---|---|
| PO112063.D | 1 | 07/07/25 08:30 | 07/07/25 23:52 | PB168735 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 118 | | 4.20 | 18.0 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.30 | U | 4.30 | 18.0 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.90 | U | 3.90 | 18.0 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.20 | U | 4.20 | 18.0 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.30 | U | 6.30 | 18.0 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.40 | U | 3.40 | 18.0 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.30 | U | 5.30 | 18.0 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.80 | U | 3.80 | 18.0 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 112 | | 3.40 | 18.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 15.0 | | 32 - 144 | 75% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 12.3 | | 32 - 175 | 61% | SPK: 20 |

Comments:

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() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | HR-3-070325MSD | SDG No.: | Q2514 |
| Lab Sample ID: | Q2513-03MSD | Matrix: | SOIL |
| Analytical Method: | 8082A | % Solid: | 94.4 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 |
|---|---|---|---|---|
| PO112064.D | 1 | 07/07/25 08:30 | 07/08/25 00:10 | PB168735 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 119 | | 4.20 | 18.0 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 4.30 | U | 4.30 | 18.0 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.90 | U | 3.90 | 18.0 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 4.20 | U | 4.20 | 18.0 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 6.30 | U | 6.30 | 18.0 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.40 | U | 3.40 | 18.0 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.30 | U | 5.30 | 18.0 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.80 | U | 3.80 | 18.0 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 114 | | 3.40 | 18.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 14.9 | | 32 - 144 | 74% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 13.0 | | 32 - 175 | 65% | SPK: 20 |

Comments:

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LOD = Limit of Detection
E = Value Exceeds Calibration Range
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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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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2514 | **OrderDate:** | 7/3/2025 1:29:00 PM |
| **Client:** | CDM Smith | **Project:** | South River WM Replacement |
| **Contact:** | Marcie Ann Encinas | **Location:** | O21,O22,VOA Lab |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2514-01** | **TP-92** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-02** | **TP-93** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-03** | **TP-94** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-04** | **TP-96** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-05** | **TP-97** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |

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## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-06** | **TP-103** | **SOIL** | | | **07/02/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-07** | **TP-36** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-08** | **TP-78** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-09** | **TP-81** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-10** | **TP-90** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 |
| | | | Herbicide | 8151A | | 07/08/25 | 07/10/25 |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 |
| **Q2514-10RE** | **TP-90RE** | **SOIL** | | | **07/03/25** | | **07/03/25** |

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## LAB CHRONICLE

| | | | |
|---|---|---|---|
| Herbicide | 8151A | 07/08/25 | 07/11/25 |

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Fax : 908 789 8922



# Hit Summary Sheet
## SW-846

**SDG No.:** Q2514 **Order ID:** Q2514

**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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 87.4 Decanted: |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030992.D | 1 | 07/08/25 13:30 | 07/10/25 18:11 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 8.90 | U | 8.90 | 76.5 | ug/Kg |
| 120-36-5 | DICHLORPROP | 14.6 | U | 14.6 | 76.5 | ug/Kg |
| 94-75-7 | 2,4-D | 10.3 | U | 10.3 | 76.5 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.3 | U | 10.3 | 76.5 | ug/Kg |
| 93-76-5 | 2,4,5-T | 9.90 | U | 9.90 | 76.5 | ug/Kg |
| 94-82-6 | 2,4-DB | 27.6 | U | 27.6 | 76.5 | ug/Kg |
| 88-85-7 | DINOSEB | 12.3 | U | 12.3 | 76.5 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 276 | | 10 - 141 | 55% | 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: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 87.7 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 |
|---|---|---|---|---|
| PS030993.D | 1 | 07/08/25 13:30 | 07/10/25 18:35 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 8.80 | U | 8.80 | 76.3 | ug/Kg |
| 120-36-5 | DICHLORPROP | 14.6 | U | 14.6 | 76.3 | ug/Kg |
| 94-75-7 | 2,4-D | 10.3 | U | 10.3 | 76.3 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.3 | U | 10.3 | 76.3 | ug/Kg |
| 93-76-5 | 2,4,5-T | 9.90 | U | 9.90 | 76.3 | ug/Kg |
| 94-82-6 | 2,4-DB | 27.6 | U | 27.6 | 76.3 | ug/Kg |
| 88-85-7 | DINOSEB | 12.3 | U | 12.3 | 76.3 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 206 | | 10 - 141 | 41% | SPK: 500 |

Comments:

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B = Analyte Found in Associated Method Blank
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* = Values outside of QC 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: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 88.1 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 |
|---|---|---|---|---|
| PS030994.D | 1 | 07/08/25 13:30 | 07/10/25 19:00 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 8.80 | U | 8.80 | 75.9 | ug/Kg |
| 120-36-5 | DICHLORPROP | 14.5 | U | 14.5 | 75.9 | ug/Kg |
| 94-75-7 | 2,4-D | 10.2 | U | 10.2 | 75.9 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.3 | U | 10.3 | 75.9 | ug/Kg |
| 93-76-5 | 2,4,5-T | 9.90 | U | 9.90 | 75.9 | ug/Kg |
| 94-82-6 | 2,4-DB | 27.4 | U | 27.4 | 75.9 | ug/Kg |
| 88-85-7 | DINOSEB | 12.2 | U | 12.2 | 75.9 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 259 | | 10 - 141 | 52% | SPK: 500 |

Comments:

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
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: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 85.8 Decanted: |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030995.D | 1 | 07/08/25 13:30 | 07/10/25 19:24 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 9.00 | U | 9.00 | 78.1 | ug/Kg |
| 120-36-5 | DICHLORPROP | 14.9 | U | 14.9 | 78.1 | ug/Kg |
| 94-75-7 | 2,4-D | 10.5 | U | 10.5 | 78.1 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.6 | U | 10.6 | 78.1 | ug/Kg |
| 93-76-5 | 2,4,5-T | 10.1 | U | 10.1 | 78.1 | ug/Kg |
| 94-82-6 | 2,4-DB | 28.2 | U | 28.2 | 78.1 | ug/Kg |
| 88-85-7 | DINOSEB | 12.6 | U | 12.6 | 78.1 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 275 | | 10 - 141 | 55% | 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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 85 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 |
|---|---|---|---|---|
| PS030996.D | 1 | 07/08/25 13:30 | 07/10/25 19:48 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 9.10 | U | 9.10 | 78.7 | ug/Kg |
| 120-36-5 | DICHLORPROP | 15.0 | U | 15.0 | 78.7 | ug/Kg |
| 94-75-7 | 2,4-D | 10.6 | U | 10.6 | 78.7 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.6 | U | 10.6 | 78.7 | ug/Kg |
| 93-76-5 | 2,4,5-T | 10.2 | U | 10.2 | 78.7 | ug/Kg |
| 94-82-6 | 2,4-DB | 28.4 | U | 28.4 | 78.7 | ug/Kg |
| 88-85-7 | DINOSEB | 12.7 | U | 12.7 | 78.7 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 251 | | 10 - 141 | 50% | 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: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 86.5 Decanted: |
| Sample Wt/Vol: | 30.09 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030997.D | 1 | 07/08/25 13:30 | 07/10/25 20:12 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 8.90 | U | 8.90 | 77.2 | ug/Kg |
| 120-36-5 | DICHLORPROP | 14.8 | U | 14.8 | 77.2 | ug/Kg |
| 94-75-7 | 2,4-D | 10.4 | U | 10.4 | 77.2 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.4 | U | 10.4 | 77.2 | ug/Kg |
| 93-76-5 | 2,4,5-T | 10.0 | U | 10.0 | 77.2 | ug/Kg |
| 94-82-6 | 2,4-DB | 27.9 | U | 27.9 | 77.2 | ug/Kg |
| 88-85-7 | DINOSEB | 12.4 | U | 12.4 | 77.2 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 340 | | 10 - 141 | 68% | 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: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 90.3 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 |
|---|---|---|---|---|
| PS030998.D | 1 | 07/08/25 13:30 | 07/10/25 20:36 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 8.60 | U | 8.60 | 74.0 | ug/Kg |
| 120-36-5 | DICHLORPROP | 14.1 | U | 14.1 | 74.0 | ug/Kg |
| 94-75-7 | 2,4-D | 10.0 | U | 10.0 | 74.0 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.0 | U | 10.0 | 74.0 | ug/Kg |
| 93-76-5 | 2,4,5-T | 9.60 | U | 9.60 | 74.0 | ug/Kg |
| 94-82-6 | 2,4-DB | 26.7 | U | 26.7 | 74.0 | ug/Kg |
| 88-85-7 | DINOSEB | 11.9 | U | 11.9 | 74.0 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 280 | | 10 - 141 | 56% | SPK: 500 |

Comments:

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() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | CDM Smith | | Date Collected: | 07/03/25 | |
| Project: | South River WM Replacement | | Date Received: | 07/03/25 | |
| Client Sample ID: | TP-78 | | SDG No.: | Q2514 | |
| Lab Sample ID: | Q2514-08 | | Matrix: | SOIL | |
| Analytical Method: | 8151A | | % Solid: | 86.3 | Decanted: |
| Sample Wt/Vol: | 30.02 | Units: g | Final Vol: | 10000 | uL |
| Soil Aliquot Vol: | | uL | Test: | Herbicide | |
| Extraction Type: | | | Injection Volume : | | |
| GPC Factor : | 1.0 | PH : | | | |
| Prep Method : | 8151A | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030999.D | 1 | 07/08/25 13:30 | 07/10/25 21:00 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 9.00 | U | 9.00 | 77.6 | ug/Kg |
| 120-36-5 | DICHLORPROP | 14.8 | U | 14.8 | 77.6 | ug/Kg |
| 94-75-7 | 2,4-D | 10.5 | U | 10.5 | 77.6 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.5 | U | 10.5 | 77.6 | ug/Kg |
| 93-76-5 | 2,4,5-T | 10.1 | U | 10.1 | 77.6 | ug/Kg |
| 94-82-6 | 2,4-DB | 28.0 | U | 28.0 | 77.6 | ug/Kg |
| 88-85-7 | DINOSEB | 12.5 | U | 12.5 | 77.6 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 302 | | 10 - 141 | 60% | SPK: 500 |

Comments:

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() = Laboratory InHouse Limit

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 86.3 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 |
|---|---|---|---|---|
| PS031000.D | 1 | 07/08/25 13:30 | 07/10/25 21:25 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 9.00 | U | 9.00 | 77.5 | ug/Kg |
| 120-36-5 | DICHLORPROP | 14.8 | U | 14.8 | 77.5 | ug/Kg |
| 94-75-7 | 2,4-D | 10.5 | U | 10.5 | 77.5 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.5 | U | 10.5 | 77.5 | ug/Kg |
| 93-76-5 | 2,4,5-T | 10.1 | U | 10.1 | 77.5 | ug/Kg |
| 94-82-6 | 2,4-DB | 28.0 | U | 28.0 | 77.5 | ug/Kg |
| 88-85-7 | DINOSEB | 12.5 | U | 12.5 | 77.5 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 161 | | 10 - 141 | 32% | 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: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 91.6 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 |
|---|---|---|---|---|
| PS031001.D | 1 | 07/08/25 13:30 | 07/10/25 21:49 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 8.50 | U | 8.50 | 73.1 | ug/Kg |
| 120-36-5 | DICHLORPROP | 14.0 | U | 14.0 | 73.1 | ug/Kg |
| 94-75-7 | 2,4-D | 9.90 | U | 9.90 | 73.1 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 9.90 | U | 9.90 | 73.1 | ug/Kg |
| 93-76-5 | 2,4,5-T | 9.50 | U | 9.50 | 73.1 | ug/Kg |
| 94-82-6 | 2,4-DB | 26.4 | U | 26.4 | 73.1 | ug/Kg |
| 88-85-7 | DINOSEB | 11.8 | U | 11.8 | 73.1 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 67.1 | | 10 - 141 | 13% | 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: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90RE | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10RE | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 91.6 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 |
|---|---|---|---|---|
| PS031015.D | 1 | 07/08/25 13:30 | 07/11/25 20:25 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 8.50 | U | 8.50 | 73.1 | ug/Kg |
| 120-36-5 | DICHLORPROP | 14.0 | U | 14.0 | 73.1 | ug/Kg |
| 94-75-7 | 2,4-D | 9.90 | U | 9.90 | 73.1 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 9.90 | U | 9.90 | 73.1 | ug/Kg |
| 93-76-5 | 2,4,5-T | 9.50 | U | 9.50 | 73.1 | ug/Kg |
| 94-82-6 | 2,4-DB | 26.4 | U | 26.4 | 73.1 | ug/Kg |
| 88-85-7 | DINOSEB | 11.8 | U | 11.8 | 73.1 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 81.2 | | 10 - 141 | 16% | 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.:** Q2514

**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-PS030958.D | PIBLK-PS030958.D | 2,4-DCAA | 1 | 500 | 456 | 91 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 462 | 92 | | 61 | 136 |
| Q2493-01MS | WC-11MS | 2,4-DCAA | 1 | 500 | 487 | 97 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 428 | 86 | | 10 | 141 |
| Q2493-01MSD | WC-11MSD | 2,4-DCAA | 1 | 500 | 489 | 98 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 426 | 85 | | 10 | 141 |
| PB168753BL | PB168753BL | 2,4-DCAA | 1 | 500 | 414 | 83 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 441 | 88 | | 10 | 141 |
| PB168753BS | PB168753BS | 2,4-DCAA | 1 | 500 | 539 | 108 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 505 | 101 | | 10 | 141 |
| I.BLK-PS030966.D | PIBLK-PS030966.D | 2,4-DCAA | 1 | 500 | 449 | 90 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 467 | 93 | | 61 | 136 |
| I.BLK-PS030989.D | PIBLK-PS030989.D | 2,4-DCAA | 1 | 500 | 476 | 95 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 476 | 95 | | 61 | 136 |
| Q2514-01 | TP-92 | 2,4-DCAA | 1 | 500 | 276 | 55 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 270 | 54 | | 10 | 141 |
| Q2514-02 | TP-93 | 2,4-DCAA | 1 | 500 | 206 | 41 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 197 | 39 | | 10 | 141 |
| Q2514-03 | TP-94 | 2,4-DCAA | 1 | 500 | 259 | 52 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 251 | 50 | | 10 | 141 |
| Q2514-04 | TP-96 | 2,4-DCAA | 1 | 500 | 275 | 55 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 273 | 55 | | 10 | 141 |
| Q2514-05 | TP-97 | 2,4-DCAA | 1 | 500 | 245 | 49 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 251 | 50 | | 10 | 141 |
| Q2514-06 | TP-103 | 2,4-DCAA | 1 | 500 | 340 | 68 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 337 | 67 | | 10 | 141 |
| Q2514-07 | TP-36 | 2,4-DCAA | 1 | 500 | 278 | 56 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 280 | 56 | | 10 | 141 |
| Q2514-08 | TP-78 | 2,4-DCAA | 1 | 500 | 293 | 59 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 302 | 60 | | 10 | 141 |
| Q2514-09 | TP-81 | 2,4-DCAA | 1 | 500 | 87.9 | 18 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 161 | 32 | | 10 | 141 |
| Q2514-10 | TP-90 | 2,4-DCAA | 1 | 500 | 40.9 | 8 | * | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 67.1 | 13 | | 10 | 141 |
| I.BLK-PS031002.D | PIBLK-PS031002.D | 2,4-DCAA | 1 | 500 | 478 | 96 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 483 | 97 | | 61 | 136 |
| I.BLK-PS031005.D | PIBLK-PS031005.D | 2,4-DCAA | 1 | 500 | 356 | 71 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 496 | 99 | | 61 | 136 |
| I.BLK-PS031012.D | PIBLK-PS031012.D | 2,4-DCAA | 1 | 500 | 375 | 75 | | 61 | 136 |

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## Surrogate Summary

**SDG No.:** Q2514

**Client:** CDM Smith

**Analytical Method:** 8151A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Recovery(%) | Qual | Limits(%) Low | Limits(%) High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PS031012.D | PIBLK-PS031012.D | 2,4-DCAA | 2 | 500 | 493 | 99 | | 61 | 136 |
| Q2514-10RE | TP-90RE | 2,4-DCAA | 1 | 500 | 35.9 | 7 | * | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 81.2 | 16 | | 10 | 141 |
| I.BLK-PS031018.D | PIBLK-PS031018.D | 2,4-DCAA | 1 | 500 | 399 | 80 | | 61 | 136 |
| | | 2,4-DCAA | 2 | 500 | 489 | 98 | | 61 | 136 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** 8151A

**Client:** CDM Smith **DataFile :** PS030961.D

| | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** | **Q2493-01MS (Column 1)** | **Client Sample ID:** | | **WC-11MS** | | | | | | | | |
| | DICAMBA | 187.5 | 0 | 137 | ug/Kg | 73 | | | | 10 | 112 | |
| | DICHLORPROP | 187.5 | 0 | 144 | ug/Kg | 77 | | | | 10 | 113 | |
| | 2,4-D | 187.5 | 0 | 545 | ug/Kg | 291 | * | | | 10 | 144 | |
| | 2,4,5-TP(Silvex) | 187.5 | 0 | 143 | ug/Kg | 76 | | | | 10 | 114 | |
| | 2,4,5-T | 187.5 | 0 | 155 | ug/Kg | 83 | | | | 10 | 115 | |
| | 2,4-DB | 187.5 | 0 | 134 | ug/Kg | 71 | | | | 10 | 140 | |
| | Dinoseb | 187.5 | 0 | 0 | ug/Kg | 0 | * | | | 10 | 118 | |
| **Lab Sample ID:** | **Q2493-01MS (Column 2)** | **Client Sample ID:** | | **WC-11MS** | | | | | | | | |
| | DICAMBA | 187.5 | 0 | 133 | ug/Kg | 71 | | | | 10 | 112 | |
| | DICHLORPROP | 187.5 | 0 | 142 | ug/Kg | 76 | | | | 10 | 113 | |
| | 2,4-D | 187.5 | 0 | 124 | ug/Kg | 66 | * | | | 10 | 144 | |
| | 2,4,5-TP(Silvex) | 187.5 | 0 | 142 | ug/Kg | 76 | | | | 10 | 114 | |
| | 2,4,5-T | 187.5 | 0 | 140 | ug/Kg | 75 | | | | 10 | 115 | |
| | 2,4-DB | 187.5 | 0 | 117 | ug/Kg | 62 | | | | 10 | 140 | |
| | Dinoseb | 187.5 | 0 | 0 | ug/Kg | 0 | * | | | 10 | 118 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q2514 **Analytical Method:** 8151A

**Client:** CDM Smith **DataFile :** PS030962.D

| | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** | **Q2493-01MSD (Column 1)** | **Client Sample ID:** | | **WC-11MSD** | | | | | | | | |
| | DICAMBA | 187.4 | 0 | 138 | ug/Kg | 74 | | 1 | | 10 | 112 | 20 |
| | DICHLORPROP | 187.4 | 0 | 133 | ug/Kg | 71 | | 8 | | 10 | 113 | 20 |
| | 2,4-D | 187.4 | 0 | 562 | ug/Kg | 300 | * | 3 | | 10 | 144 | 20 |
| | 2,4,5-TP(Silvex) | 187.4 | 0 | 144 | ug/Kg | 77 | | 1 | | 10 | 114 | 20 |
| | 2,4,5-T | 187.4 | 0 | 159 | ug/Kg | 85 | | 2 | | 10 | 115 | 20 |
| | 2,4-DB | 187.4 | 0 | 126 | ug/Kg | 67 | | 6 | | 10 | 140 | 20 |
| | Dinoseb | 187.4 | 0 | 0 | ug/Kg | 0 | * | 0 | | 10 | 118 | 20 |
| **Lab Sample ID:** | **Q2493-01MSD (Column 2)** | **Client Sample ID:** | | **WC-11MSD** | | | | | | | | |
| | DICAMBA | 187.4 | 0 | 133 | ug/Kg | 71 | | 0 | | 10 | 112 | 20 |
| | DICHLORPROP | 187.4 | 0 | 143 | ug/Kg | 76 | | 0 | | 10 | 113 | 20 |
| | 2,4-D | 187.4 | 0 | 128 | ug/Kg | 68 | * | 3 | | 10 | 144 | 20 |
| | 2,4,5-TP(Silvex) | 187.4 | 0 | 143 | ug/Kg | 76 | | 0 | | 10 | 114 | 20 |
| | 2,4,5-T | 187.4 | 0 | 142 | ug/Kg | 76 | | 1 | | 10 | 115 | 20 |
| | 2,4-DB | 187.4 | 0 | 119 | ug/Kg | 64 | | 3 | | 10 | 140 | 20 |
| | Dinoseb | 187.4 | 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.:** Q2514 **Analytical Method:** 8151A

**Client:** CDM Smith **Datafile :** PS030964.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB168753BS (Column 1) | DICAMBA | 166.6 | 172 | ug/Kg | 103 | | | | 72 | 129 | |
| | DICHLORPROP | 166.6 | 163 | ug/Kg | 98 | | | | 77 | 135 | |
| | 2,4-D | 166.6 | 170 | ug/Kg | 102 | | | | 65 | 144 | |
| | 2,4,5-TP(Silvex) | 166.6 | 176 | ug/Kg | 106 | | | | 74 | 146 | |
| | 2,4,5-T | 166.6 | 185 | ug/Kg | 111 | | | | 77 | 134 | |
| | 2,4-DB | 166.6 | 193 | ug/Kg | 116 | | | | 72 | 122 | |
| | Dinoseb | 166.6 | 168 | ug/Kg | 101 | | | | 74 | 132 | |
| PB168753BS (Column 2) | DICAMBA | 166.6 | 162 | ug/Kg | 97 | | | | 72 | 129 | |
| | DICHLORPROP | 166.6 | 159 | ug/Kg | 95 | | | | 77 | 135 | |
| | 2,4-D | 166.6 | 153 | ug/Kg | 92 | | | | 65 | 144 | |
| | 2,4,5-TP(Silvex) | 166.6 | 167 | ug/Kg | 100 | | | | 74 | 146 | |
| | 2,4,5-T | 166.6 | 168 | ug/Kg | 101 | | | | 77 | 134 | |
| | 2,4-DB | 166.6 | 161 | ug/Kg | 97 | | | | 72 | 122 | |
| | Dinoseb | 166.6 | 153 | ug/Kg | 92 | | | | 74 | 132 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

Client ID: PB168753BL

Lab Name: Alliance | Contract: CAMP02

Lab Code: ACE | SDG NO.: Q2514

Lab Sample ID: PB168753BL | Lab File ID: PS030963.D

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

Sulfur Cleanup: (Y/N) N | Date Extracted: 07/08/2025

Date Analyzed (1): 07/09/2025 | Date Analyzed (2): 07/09/2025

Time Analyzed (1): 13:12 | Time Analyzed (2): 13:12

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 |
|---|---|---|---|---|
| WC-11MS | Q2493-01MS | PS030961.D | 07/09/2025 | 07/09/2025 |
| WC-11MSD | Q2493-01MSD | PS030962.D | 07/09/2025 | 07/09/2025 |
| PB168753BS | PB168753BS | PS030964.D | 07/09/2025 | 07/09/2025 |
| TP-92 | Q2514-01 | PS030992.D | 07/10/2025 | 07/10/2025 |
| TP-93 | Q2514-02 | PS030993.D | 07/10/2025 | 07/10/2025 |
| TP-94 | Q2514-03 | PS030994.D | 07/10/2025 | 07/10/2025 |
| TP-96 | Q2514-04 | PS030995.D | 07/10/2025 | 07/10/2025 |
| TP-97 | Q2514-05 | PS030996.D | 07/10/2025 | 07/10/2025 |
| TP-103 | Q2514-06 | PS030997.D | 07/10/2025 | 07/10/2025 |
| TP-36 | Q2514-07 | PS030998.D | 07/10/2025 | 07/10/2025 |
| TP-78 | Q2514-08 | PS030999.D | 07/10/2025 | 07/10/2025 |
| TP-81 | Q2514-09 | PS031000.D | 07/10/2025 | 07/10/2025 |
| TP-90 | Q2514-10 | PS031001.D | 07/10/2025 | 07/10/2025 |

COMMENTS:

# QC SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | PB168753BL | SDG No.: | Q2514 |
| Lab Sample ID: | PB168753BL | 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 |
|---|---|---|---|---|
| PS030963.D | 1 | 07/08/25 13:30 | 07/09/25 13:12 | PB168753 |

| 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 | 441 | | 10 - 141 | 88% | 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.: | Q2514 |
| 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/09/25 |
| Project: | South River WM Replacement | Date Received: | 07/09/25 |
| Client Sample ID: | PIBLK-PS030958.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PS030958.D | Matrix: | WATER |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030958.D | 1 | | 07/09/25 | PS070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.65 | U | 0.65 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.76 | U | 0.76 | 2.00 | ug/L |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| 93-76-5 | 2,4,5-T | 0.71 | U | 0.71 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.65 | U | 0.65 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.89 | U | 0.89 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 462 | | 61 - 136 | 92% | SPK: 500 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/09/25 |
| Project: | South River WM Replacement | Date Received: | 07/09/25 |
| Client Sample ID: | PIBLK-PS030966.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PS030966.D | Matrix: | WATER |
| Analytical Method: | 8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030966.D | 1 | | 07/09/25 | ps070925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.65 | U | 0.65 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.76 | U | 0.76 | 2.00 | ug/L |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| 93-76-5 | 2,4,5-T | 0.71 | U | 0.71 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.65 | U | 0.65 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.89 | U | 0.89 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 467 | | 61 - 136 | 93% | SPK: 500 |

Comments:

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

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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/10/25 |
| Project: | South River WM Replacement | Date Received: | 07/10/25 |
| Client Sample ID: | PIBLK-PS030989.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PS030989.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 |
|---|---|---|---|---|
| PS030989.D | 1 | | 07/10/25 | ps071025 |

| 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 | 476 | | 61 - 136 | 95% | SPK: 500 |

Comments:

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

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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/10/25 |
| Project: | South River WM Replacement | Date Received: | 07/10/25 |
| Client Sample ID: | PIBLK-PS031002.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PS031002.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 |
|---|---|---|---|---|
| PS031002.D | 1 | | 07/10/25 | ps071025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.65 | U | 0.65 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.76 | U | 0.76 | 2.00 | ug/L |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| 93-76-5 | 2,4,5-T | 0.71 | U | 0.71 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.65 | U | 0.65 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.89 | U | 0.89 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 483 | | 61 - 136 | 97% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/11/25 |
| Project: | South River WM Replacement | Date Received: | 07/11/25 |
| Client Sample ID: | PIBLK-PS031005.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PS031005.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 |
|---|---|---|---|---|
| PS031005.D | 1 | | 07/11/25 | PS071125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.65 | U | 0.65 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.76 | U | 0.76 | 2.00 | ug/L |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| 93-76-5 | 2,4,5-T | 0.71 | U | 0.71 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.65 | U | 0.65 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.89 | U | 0.89 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 496 | | 61 - 136 | 99% | SPK: 500 |

Comments:

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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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/11/25 |
| Project: | South River WM Replacement | Date Received: | 07/11/25 |
| Client Sample ID: | PIBLK-PS031012.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PS031012.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 |
|---|---|---|---|---|
| PS031012.D | 1 | | 07/11/25 | PS071125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.65 | U | 0.65 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.76 | U | 0.76 | 2.00 | ug/L |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| 93-76-5 | 2,4,5-T | 0.71 | U | 0.71 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.65 | U | 0.65 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.89 | U | 0.89 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 493 | | 61 - 136 | 99% | SPK: 500 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
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: | 07/11/25 |
| Project: | South River WM Replacement | Date Received: | 07/11/25 |
| Client Sample ID: | PIBLK-PS031018.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-PS031018.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 |
|---|---|---|---|---|
| PS031018.D | 1 | | 07/11/25 | PS071125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.65 | U | 0.65 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.76 | U | 0.76 | 2.00 | ug/L |
| 94-75-7 | 2,4-D | 0.92 | U | 0.92 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.78 | U | 0.78 | 2.00 | ug/L |
| 93-76-5 | 2,4,5-T | 0.71 | U | 0.71 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.65 | U | 0.65 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.89 | U | 0.89 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 489 | | 61 - 136 | 98% | SPK: 500 |

Comments:

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

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

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | PB168753BS | SDG No.: | Q2514 |
| Lab Sample ID: | PB168753BS | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030964.D | 1 | 07/08/25 13:30 | 07/09/25 13:36 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 172 | | 7.70 | 67.0 | ug/Kg |
| 120-36-5 | DICHLORPROP | 163 | | 12.8 | 67.0 | ug/Kg |
| 94-75-7 | 2,4-D | 170 | | 9.00 | 67.0 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 176 | | 9.10 | 67.0 | ug/Kg |
| 93-76-5 | 2,4,5-T | 185 | | 8.70 | 67.0 | ug/Kg |
| 94-82-6 | 2,4-DB | 193 | | 24.2 | 67.0 | ug/Kg |
| 88-85-7 | DINOSEB | 168 | | 10.8 | 67.0 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 539 | | 10 - 141 | 108% | SPK: 500 |

Comments:

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/02/25 |
| Client Sample ID: | WC-11MS | SDG No.: | Q2514 |
| Lab Sample ID: | Q2493-01MS | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 88.7 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 |
|---|---|---|---|---|
| PS030961.D | 1 | 07/08/25 13:30 | 07/09/25 12:24 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 137 | | 8.70 | 75.4 | ug/Kg |
| 120-36-5 | DICHLORPROP | 144 | | 14.4 | 75.4 | ug/Kg |
| 94-75-7 | 2,4-D | 545 | P | 10.2 | 75.4 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 143 | | 10.2 | 75.4 | ug/Kg |
| 93-76-5 | 2,4,5-T | 155 | | 9.80 | 75.4 | ug/Kg |
| 94-82-6 | 2,4-DB | 134 | | 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 | 487 | | 10 - 141 | 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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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/02/25 |
| Client Sample ID: | WC-11MSD | SDG No.: | Q2514 |
| Lab Sample ID: | Q2493-01MSD | Matrix: | SOIL |
| Analytical Method: | 8151A | % Solid: | 88.7 Decanted: |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS030962.D | 1 | 07/08/25 13:30 | 07/09/25 12:48 | PB168753 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 138 | | 8.70 | 75.3 | ug/Kg |
| 120-36-5 | DICHLORPROP | 143 | | 14.4 | 75.3 | ug/Kg |
| 94-75-7 | 2,4-D | 562 | P | 10.2 | 75.3 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 144 | | 10.2 | 75.3 | ug/Kg |
| 93-76-5 | 2,4,5-T | 159 | | 9.80 | 75.3 | ug/Kg |
| 94-82-6 | 2,4-DB | 126 | | 27.2 | 75.3 | ug/Kg |
| 88-85-7 | DINOSEB | 12.1 | U | 12.1 | 75.3 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 489 | | 10 - 141 | 98% | SPK: 500 |

Comments:

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

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

# CALIBRATION SUMMARY

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



## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_S
**Contract:** CAMP02
**SDG NO.:** Q2514
**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.:** Q2514
**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.:** Q2514
**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.:** Q2514
**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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## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_S
**Contract:** CAMP02
**SDG NO.:** Q2514
**Calibration Date(s):** 07/11/2025 07/11/2025
**Calibration Times:** 16:00 17:36

GC Column: RTX-CLP ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS031006.D RT 500 = PS031007.D
RT 750 = PS031008.D RT 1000 = PS031009.D RT 1500 = PS031010.D

| COMPOUND | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-T | 9.65 | 9.65 | 9.65 | 9.65 | 9.65 | 9.65 | 9.55 | 9.75 |
| 2,4,5-TP(Silvex) | 9.35 | 9.35 | 9.35 | 9.35 | 9.35 | 9.35 | 9.25 | 9.45 |
| 2,4-D | 8.47 | 8.47 | 8.47 | 8.47 | 8.47 | 8.47 | 8.37 | 8.57 |
| 2,4-DB | 10.23 | 10.23 | 10.23 | 10.22 | 10.22 | 10.22 | 10.12 | 10.32 |
| 2,4-DCAA | 7.33 | 7.33 | 7.33 | 7.33 | 7.33 | 7.33 | 7.23 | 7.43 |
| DICAMBA | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.42 | 7.62 |
| DICHLORPROP | 8.23 | 8.23 | 8.24 | 8.23 | 8.23 | 8.23 | 8.13 | 8.33 |
| Dinoseb | 11.44 | 11.44 | 11.44 | 11.44 | 11.44 | 11.44 | 11.34 | 11.54 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_S
**Contract:** CAMP02
**SDG NO.:** Q2514
**Calibration Date(s):** 07/11/2025 07/11/2025
**Calibration Times:** 16:00 17:36

GC Column: RTX-CLP2 ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS031006.D RT 500 = PS031007.D
RT 750 = PS031008.D RT 1000 = PS031009.D RT 1500 = PS031010.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.:** Q2514
**Calibration Date(s):** 07/11/2025 07/11/2025
**Calibration Times:** 16:00 17:36

**GC Column:** RTX-CLP **ID:** 0.32 (mm)

**LAB FILE ID:** CF 200 = PS031006.D CF 500 = PS031007.D
CF 750 = PS031008.D CF 1000 = PS031009.D CF 1500 = PS031010.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-T | 16153700000 | 14634600000 | 14827200000 | 15218900000 | 15232300000 | 15213300000 | 4 |
| 2,4,5-TP(Silvex) | 20737500000 | 18270800000 | 18189000000 | 18194100000 | 17662300000 | 18610700000 | 7 |
| 2,4-D | 3556670000 | 2984170000 | 2931980000 | 2976850000 | 2942510000 | 3078440000 | 9 |
| 2,4-DB | 2297930000 | 2042050000 | 2088340000 | 2166500000 | 2259130000 | 2170790000 | 5 |
| 2,4-DCAA | 4821770000 | 3910250000 | 3755950000 | 3730170000 | 3557220000 | 3955070000 | 13 |
| DICAMBA | 18746100000 | 15451800000 | 15023600000 | 14973000000 | 14260000000 | 15690900000 | 11 |
| DICHLORPROP | 4147310000 | 3328120000 | 3223340000 | 3219630000 | 3107370000 | 3405150000 | 12 |
| Dinoseb | 14412500000 | 12754600000 | 12827100000 | 13048300000 | 12877100000 | 13183900000 | 5 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Lab Name:** Alliance
**Lab Code:** ACE
**Instrument ID:** ECD_S

**Contract:** CAMP02
**SDG NO.:** Q2514
**Calibration Date(s):** 07/11/2025 07/11/2025
**Calibration Times:** 16:00 17:36

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 200 =** PS031006.D **CF 500 =** PS031007.D
**CF 750 =** PS031008.D **CF 1000 =** PS031009.D **CF 1500 =** PS031010.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-T | 16269400000 | 13765000000 | 13530200000 | 13537000000 | 12857400000 | 13991800000 | 9 |
| 2,4,5-TP(Silvex) | 17216300000 | 14510800000 | 14174600000 | 14131100000 | 13346200000 | 14675800000 | 10 |
| 2,4-D | 2058060000 | 1665160000 | 1617550000 | 1610710000 | 1545850000 | 1699460000 | 12 |
| 2,4-DB | 1412490000 | 1151430000 | 1126050000 | 1131610000 | 1094330000 | 1183180000 | 11 |
| 2,4-DCAA | 1258080000 | 1011280000 | 984071000 | 981302000 | 945431000 | 1036030000 | 12 |
| DICAMBA | 7306630000 | 6285710000 | 6261030000 | 6359950000 | 6168790000 | 6476420000 | 7 |
| DICHLORPROP | 1860680000 | 1491170000 | 1445400000 | 1431140000 | 1367910000 | 1519260000 | 13 |
| Dinoseb | 13202400000 | 11075600000 | 10918600000 | 11003800000 | 10557100000 | 11351500000 | 9 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/09/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

**Continuing Calib Time:** 11:36 **Initial Calibration Time(s):** 11:25 13:29

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.53 | 7.54 | 7.44 | 7.64 | 0.01 |
| 2,4-DCAA | 7.34 | 7.35 | 7.25 | 7.45 | 0.01 |
| DICHLORPROP | 8.24 | 8.25 | 8.15 | 8.35 | 0.01 |
| 2,4-D | 8.47 | 8.49 | 8.39 | 8.59 | 0.02 |
| 2,4,5-TP(Silvex) | 9.36 | 9.38 | 9.28 | 9.48 | 0.02 |
| 2,4,5-T | 9.66 | 9.67 | 9.57 | 9.77 | 0.01 |
| 2,4-DB | 10.23 | 10.25 | 10.15 | 10.35 | 0.02 |
| Dinoseb | 11.45 | 11.47 | 11.37 | 11.57 | 0.02 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/09/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

**Continuing Calib Time:** 11:36 **Initial Calibration Time(s):** 11:25 13:29

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.97 | 7.97 | 7.87 | 8.07 | 0.00 |
| 2,4-DCAA | 7.76 | 7.77 | 7.67 | 7.87 | 0.01 |
| DICHLORPROP | 8.69 | 8.69 | 8.59 | 8.79 | 0.00 |
| 2,4-D | 9.02 | 9.03 | 8.93 | 9.13 | 0.01 |
| 2,4,5-TP(Silvex) | 9.93 | 9.93 | 9.83 | 10.03 | 0.00 |
| 2,4,5-T | 10.36 | 10.36 | 10.26 | 10.46 | 0.00 |
| 2,4-DB | 10.93 | 10.93 | 10.83 | 11.03 | 0.00 |
| Dinoseb | 11.31 | 11.31 | 11.21 | 11.41 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 07/09/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS030959.D **Time Analyzed:** 11:36

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 9.656 | 9.568 | 9.768 | 725.530 | 712.500 | 1.8 |
| 2,4,5-TP(Silvex) | 9.361 | 9.275 | 9.475 | 678.460 | 712.500 | -4.8 |
| 2,4-D | 8.474 | 8.386 | 8.586 | 643.260 | 705.000 | -8.8 |
| 2,4-DB | 10.233 | 10.147 | 10.347 | 758.610 | 712.500 | 6.5 |
| 2,4-DCAA | 7.338 | 7.249 | 7.449 | 683.770 | 750.000 | -8.8 |
| DICAMBA | 7.528 | 7.439 | 7.639 | 643.540 | 705.000 | -8.7 |
| DICHLORPROP | 8.241 | 8.153 | 8.353 | 643.260 | 705.000 | -8.8 |
| Dinoseb | 11.451 | 11.366 | 11.566 | 661.940 | 705.000 | -6.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

**Client Sample No.:** CCAL01 **Date Analyzed:** 07/09/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS030959.D **Time Analyzed:** 11:36

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 10.357 | 10.259 | 10.459 | 629.350 | 712.500 | -11.7 |
| 2,4,5-TP(Silvex) | 9.931 | 9.833 | 10.033 | 622.060 | 712.500 | -12.7 |
| 2,4-D | 9.024 | 8.927 | 9.127 | 614.410 | 705.000 | -12.8 |
| 2,4-DB | 10.925 | 10.827 | 11.027 | 607.740 | 712.500 | -14.7 |
| 2,4-DCAA | 7.764 | 7.670 | 7.870 | 694.400 | 750.000 | -7.4 |
| DICAMBA | 7.967 | 7.872 | 8.072 | 602.990 | 705.000 | -14.5 |
| DICHLORPROP | 8.687 | 8.591 | 8.791 | 588.230 | 705.000 | -16.6 |
| Dinoseb | 11.311 | 11.211 | 11.411 | 586.380 | 705.000 | -16.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/09/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

**Continuing Calib Time:** 14:52 **Initial Calibration Time(s):** 11:25 13:29

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.53 | 7.54 | 7.44 | 7.64 | 0.01 |
| 2,4-DCAA | 7.34 | 7.35 | 7.25 | 7.45 | 0.01 |
| DICHLORPROP | 8.24 | 8.25 | 8.15 | 8.35 | 0.01 |
| 2,4-D | 8.47 | 8.49 | 8.39 | 8.59 | 0.02 |
| 2,4,5-TP(Silvex) | 9.36 | 9.38 | 9.28 | 9.48 | 0.02 |
| 2,4,5-T | 9.65 | 9.67 | 9.57 | 9.77 | 0.02 |
| 2,4-DB | 10.23 | 10.25 | 10.15 | 10.35 | 0.02 |
| Dinoseb | 11.45 | 11.47 | 11.37 | 11.57 | 0.02 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/09/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

**Continuing Calib Time:** 14:52 **Initial Calibration Time(s):** 11:25 13:29

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.97 | 7.97 | 7.87 | 8.07 | 0.00 |
| 2,4-DCAA | 7.77 | 7.77 | 7.67 | 7.87 | 0.00 |
| DICHLORPROP | 8.69 | 8.69 | 8.59 | 8.79 | 0.00 |
| 2,4-D | 9.03 | 9.03 | 8.93 | 9.13 | 0.00 |
| 2,4,5-TP(Silvex) | 9.93 | 9.93 | 9.83 | 10.03 | 0.00 |
| 2,4,5-T | 10.36 | 10.36 | 10.26 | 10.46 | 0.00 |
| 2,4-DB | 10.93 | 10.93 | 10.83 | 11.03 | 0.00 |
| Dinoseb | 11.31 | 11.31 | 11.21 | 11.41 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 07/09/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS030967.D **Time Analyzed:** 14:52

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 9.653 | 9.568 | 9.768 | 709.820 | 712.500 | -0.4 |
| 2,4,5-TP(Silvex) | 9.359 | 9.275 | 9.475 | 668.070 | 712.500 | -6.2 |
| 2,4-D | 8.471 | 8.386 | 8.586 | 643.940 | 705.000 | -8.7 |
| 2,4-DB | 10.231 | 10.147 | 10.347 | 759.090 | 712.500 | 6.5 |
| 2,4-DCAA | 7.337 | 7.249 | 7.449 | 668.070 | 750.000 | -10.9 |
| DICAMBA | 7.526 | 7.439 | 7.639 | 648.820 | 705.000 | -8.0 |
| DICHLORPROP | 8.240 | 8.153 | 8.353 | 607.260 | 705.000 | -13.9 |
| Dinoseb | 11.447 | 11.366 | 11.566 | 644.130 | 705.000 | -8.6 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

**Client Sample No.:** CCAL02 **Date Analyzed:** 07/09/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS030967.D **Time Analyzed:** 14:52

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 10.361 | 10.259 | 10.459 | 635.110 | 712.500 | -10.9 |
| 2,4,5-TP(Silvex) | 9.934 | 9.833 | 10.033 | 629.760 | 712.500 | -11.6 |
| 2,4-D | 9.028 | 8.927 | 9.127 | 626.500 | 705.000 | -11.1 |
| 2,4-DB | 10.929 | 10.827 | 11.027 | 617.890 | 712.500 | -13.3 |
| 2,4-DCAA | 7.769 | 7.670 | 7.870 | 636.310 | 750.000 | -15.2 |
| DICAMBA | 7.972 | 7.872 | 8.072 | 613.280 | 705.000 | -13.0 |
| DICHLORPROP | 8.692 | 8.591 | 8.791 | 588.860 | 705.000 | -16.5 |
| Dinoseb | 11.313 | 11.211 | 11.411 | 588.950 | 705.000 | -16.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/10/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

**Continuing Calib Time:** 16:59 **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 | 7.52 | 7.54 | 7.44 | 7.64 | 0.02 |
| 2,4-DCAA | 7.33 | 7.35 | 7.25 | 7.45 | 0.02 |
| 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 | 0.03 |
| 2,4,5-T | 9.65 | 9.67 | 9.57 | 9.77 | 0.02 |
| 2,4-DB | 10.23 | 10.25 | 10.15 | 10.35 | 0.02 |
| Dinoseb | 11.44 | 11.47 | 11.37 | 11.57 | 0.03 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/10/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

**Continuing Calib Time:** 16:59 **Initial Calibration Time(s):** 11:25 13:29

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.97 | 7.97 | 7.87 | 8.07 | 0.00 |
| 2,4-DCAA | 7.77 | 7.77 | 7.67 | 7.87 | 0.00 |
| DICHLORPROP | 8.69 | 8.69 | 8.59 | 8.79 | 0.00 |
| 2,4-D | 9.03 | 9.03 | 8.93 | 9.13 | 0.00 |
| 2,4,5-TP(Silvex) | 9.93 | 9.93 | 9.83 | 10.03 | 0.00 |
| 2,4,5-T | 10.36 | 10.36 | 10.26 | 10.46 | 0.00 |
| 2,4-DB | 10.93 | 10.93 | 10.83 | 11.03 | 0.00 |
| Dinoseb | 11.31 | 11.31 | 11.21 | 11.41 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 07/10/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS030990.D **Time Analyzed:** 16:59

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 9.650 | 9.568 | 9.768 | 782.090 | 712.500 | 9.8 |
| 2,4,5-TP(Silvex) | 9.355 | 9.275 | 9.475 | 720.380 | 712.500 | 1.1 |
| 2,4-D | 8.469 | 8.386 | 8.586 | 702.820 | 705.000 | -0.3 |
| 2,4-DB | 10.227 | 10.147 | 10.347 | 848.520 | 712.500 | 19.1 |
| 2,4-DCAA | 7.334 | 7.249 | 7.449 | 718.940 | 750.000 | -4.1 |
| DICAMBA | 7.524 | 7.439 | 7.639 | 694.160 | 705.000 | -1.5 |
| DICHLORPROP | 8.237 | 8.153 | 8.353 | 649.970 | 705.000 | -7.8 |
| Dinoseb | 11.443 | 11.366 | 11.566 | 705.470 | 705.000 | 0.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

**Client Sample No.:** CCAL03 **Date Analyzed:** 07/10/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS030990.D **Time Analyzed:** 16:59

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 10.359 | 10.259 | 10.459 | 678.370 | 712.500 | -4.8 |
| 2,4,5-TP(Silvex) | 9.932 | 9.833 | 10.033 | 671.710 | 712.500 | -5.7 |
| 2,4-D | 9.027 | 8.927 | 9.127 | 622.580 | 705.000 | -11.7 |
| 2,4-DB | 10.927 | 10.827 | 11.027 | 653.050 | 712.500 | -8.3 |
| 2,4-DCAA | 7.768 | 7.670 | 7.870 | 672.370 | 750.000 | -10.4 |
| DICAMBA | 7.971 | 7.872 | 8.072 | 654.990 | 705.000 | -7.1 |
| DICHLORPROP | 8.691 | 8.591 | 8.791 | 633.040 | 705.000 | -10.2 |
| Dinoseb | 11.312 | 11.211 | 11.411 | 643.930 | 705.000 | -8.7 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/10/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

**Continuing Calib Time:** 23:00 **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 | 7.52 | 7.54 | 7.44 | 7.64 | 0.02 |
| 2,4-DCAA | 7.33 | 7.35 | 7.25 | 7.45 | 0.02 |
| 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) | 9.35 | 9.38 | 9.28 | 9.48 | 0.03 |
| 2,4,5-T | 9.65 | 9.67 | 9.57 | 9.77 | 0.02 |
| 2,4-DB | 10.23 | 10.25 | 10.15 | 10.35 | 0.02 |
| Dinoseb | 11.44 | 11.47 | 11.37 | 11.57 | 0.03 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/10/2025 **Initial Calibration Date(s):** 06/18/2025 06/18/2025

**Continuing Calib Time:** 23:00 **Initial Calibration Time(s):** 11:25 13:29

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.97 | 7.97 | 7.87 | 8.07 | 0.00 |
| 2,4-DCAA | 7.77 | 7.77 | 7.67 | 7.87 | 0.00 |
| DICHLORPROP | 8.69 | 8.69 | 8.59 | 8.79 | 0.00 |
| 2,4-D | 9.03 | 9.03 | 8.93 | 9.13 | 0.00 |
| 2,4,5-TP(Silvex) | 9.93 | 9.93 | 9.83 | 10.03 | 0.00 |
| 2,4,5-T | 10.36 | 10.36 | 10.26 | 10.46 | 0.00 |
| 2,4-DB | 10.93 | 10.93 | 10.83 | 11.03 | 0.00 |
| Dinoseb | 11.31 | 11.31 | 11.21 | 11.41 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

**Client Sample No.:** CCAL04 **Date Analyzed:** 07/10/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS031003.D **Time Analyzed:** 23:00

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 9.649 | 9.568 | 9.768 | 735.600 | 712.500 | 3.2 |
| 2,4,5-TP(Silvex) | 9.354 | 9.275 | 9.475 | 672.800 | 712.500 | -5.6 |
| 2,4-D | 8.468 | 8.386 | 8.586 | 661.630 | 705.000 | -6.2 |
| 2,4-DB | 10.226 | 10.147 | 10.347 | 804.280 | 712.500 | 12.9 |
| 2,4-DCAA | 7.333 | 7.249 | 7.449 | 666.030 | 750.000 | -11.2 |
| DICAMBA | 7.523 | 7.439 | 7.639 | 645.370 | 705.000 | -8.5 |
| DICHLORPROP | 8.236 | 8.153 | 8.353 | 607.100 | 705.000 | -13.9 |
| Dinoseb | 11.442 | 11.366 | 11.566 | 659.660 | 705.000 | -6.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 06/18/2025 06/18/2025

**Client Sample No.:** CCAL04 **Date Analyzed:** 07/10/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS031003.D **Time Analyzed:** 23:00

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 10.358 | 10.259 | 10.459 | 641.980 | 712.500 | -9.9 |
| 2,4,5-TP(Silvex) | 9.932 | 9.833 | 10.033 | 635.960 | 712.500 | -10.7 |
| 2,4-D | 9.026 | 8.927 | 9.127 | 596.880 | 705.000 | -15.3 |
| 2,4-DB | 10.926 | 10.827 | 11.027 | 615.700 | 712.500 | -13.6 |
| 2,4-DCAA | 7.768 | 7.670 | 7.870 | 631.260 | 750.000 | -15.8 |
| DICAMBA | 7.970 | 7.872 | 8.072 | 615.460 | 705.000 | -12.7 |
| DICHLORPROP | 8.690 | 8.591 | 8.791 | 598.930 | 705.000 | -15.0 |
| Dinoseb | 11.311 | 11.211 | 11.411 | 604.860 | 705.000 | -14.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/11/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

**Continuing Calib Time:** 18:49 **Initial Calibration Time(s):** 16:00 17:36

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.52 | 7.52 | 7.42 | 7.62 | 0.00 |
| 2,4-DCAA | 7.33 | 7.33 | 7.23 | 7.43 | 0.00 |
| DICHLORPROP | 8.23 | 8.24 | 8.14 | 8.34 | 0.01 |
| 2,4-D | 8.47 | 8.47 | 8.37 | 8.57 | 0.00 |
| 2,4,5-TP(Silvex) | 9.35 | 9.35 | 9.25 | 9.45 | 0.00 |
| 2,4,5-T | 9.65 | 9.65 | 9.55 | 9.75 | 0.00 |
| 2,4-DB | 10.22 | 10.23 | 10.13 | 10.33 | 0.01 |
| Dinoseb | 11.44 | 11.44 | 11.34 | 11.54 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/11/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

**Continuing Calib Time:** 18:49 **Initial Calibration Time(s):** 16:00 17:36

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.97 | 7.97 | 7.87 | 8.07 | 0.00 |
| 2,4-DCAA | 7.77 | 7.77 | 7.67 | 7.87 | 0.00 |
| DICHLORPROP | 8.69 | 8.69 | 8.59 | 8.79 | 0.00 |
| 2,4-D | 9.03 | 9.03 | 8.93 | 9.13 | 0.00 |
| 2,4,5-TP(Silvex) | 9.93 | 9.93 | 9.83 | 10.03 | 0.00 |
| 2,4,5-T | 10.36 | 10.36 | 10.26 | 10.46 | 0.00 |
| 2,4-DB | 10.93 | 10.93 | 10.83 | 11.03 | 0.00 |
| Dinoseb | 11.31 | 11.31 | 11.21 | 11.41 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

**Client Sample No.:** CCAL05 **Date Analyzed:** 07/11/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS031013.D **Time Analyzed:** 18:49

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 9.645 | 9.547 | 9.747 | 727.330 | 712.500 | 2.1 |
| 2,4,5-TP(Silvex) | 9.352 | 9.253 | 9.453 | 718.350 | 712.500 | 0.8 |
| 2,4-D | 8.466 | 8.367 | 8.567 | 698.180 | 705.000 | -1.0 |
| 2,4-DB | 10.224 | 10.125 | 10.325 | 727.010 | 712.500 | 2.0 |
| 2,4-DCAA | 7.332 | 7.233 | 7.433 | 725.270 | 750.000 | -3.3 |
| DICAMBA | 7.522 | 7.422 | 7.622 | 680.050 | 705.000 | -3.5 |
| DICHLORPROP | 8.234 | 8.135 | 8.335 | 680.950 | 705.000 | -3.4 |
| Dinoseb | 11.438 | 11.339 | 11.539 | 714.790 | 705.000 | 1.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

**Client Sample No.:** CCAL05 **Date Analyzed:** 07/11/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS031013.D **Time Analyzed:** 18:49

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 10.358 | 10.258 | 10.458 | 684.990 | 712.500 | -3.9 |
| 2,4,5-TP(Silvex) | 9.932 | 9.832 | 10.032 | 684.890 | 712.500 | -3.9 |
| 2,4-D | 9.027 | 8.927 | 9.127 | 666.470 | 705.000 | -5.5 |
| 2,4-DB | 10.926 | 10.826 | 11.026 | 676.410 | 712.500 | -5.1 |
| 2,4-DCAA | 7.769 | 7.669 | 7.869 | 707.860 | 750.000 | -5.6 |
| DICAMBA | 7.971 | 7.871 | 8.071 | 679.880 | 705.000 | -3.6 |
| DICHLORPROP | 8.690 | 8.591 | 8.791 | 665.300 | 705.000 | -5.6 |
| Dinoseb | 11.311 | 11.210 | 11.410 | 673.600 | 705.000 | -4.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/11/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

**Continuing Calib Time:** 22:02 **Initial Calibration Time(s):** 16:00 17:36

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.52 | 7.52 | 7.42 | 7.62 | 0.00 |
| 2,4-DCAA | 7.33 | 7.33 | 7.23 | 7.43 | 0.00 |
| DICHLORPROP | 8.23 | 8.24 | 8.14 | 8.34 | 0.01 |
| 2,4-D | 8.47 | 8.47 | 8.37 | 8.57 | 0.00 |
| 2,4,5-TP(Silvex) | 9.35 | 9.35 | 9.25 | 9.45 | 0.00 |
| 2,4,5-T | 9.65 | 9.65 | 9.55 | 9.75 | 0.00 |
| 2,4-DB | 10.22 | 10.23 | 10.13 | 10.33 | 0.01 |
| Dinoseb | 11.44 | 11.44 | 11.34 | 11.54 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Continuing Calib Date:** 07/11/2025 **Initial Calibration Date(s):** 07/11/2025 07/11/2025

**Continuing Calib Time:** 22:02 **Initial Calibration Time(s):** 16:00 17:36

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.97 | 7.97 | 7.87 | 8.07 | 0.00 |
| 2,4-DCAA | 7.77 | 7.77 | 7.67 | 7.87 | 0.00 |
| DICHLORPROP | 8.69 | 8.69 | 8.59 | 8.79 | 0.00 |
| 2,4-D | 9.03 | 9.03 | 8.93 | 9.13 | 0.00 |
| 2,4,5-TP(Silvex) | 9.93 | 9.93 | 9.83 | 10.03 | 0.00 |
| 2,4,5-T | 10.36 | 10.36 | 10.26 | 10.46 | 0.00 |
| 2,4-DB | 10.93 | 10.93 | 10.83 | 11.03 | 0.00 |
| Dinoseb | 11.31 | 11.31 | 11.21 | 11.41 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

**Client Sample No.:** CCAL06 **Date Analyzed:** 07/11/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS031019.D **Time Analyzed:** 22:02

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 9.646 | 9.547 | 9.747 | 798.790 | 712.500 | 12.1 |
| 2,4,5-TP(Silvex) | 9.351 | 9.253 | 9.453 | 750.150 | 712.500 | 5.3 |
| 2,4-D | 8.466 | 8.367 | 8.567 | 747.650 | 705.000 | 6.0 |
| 2,4-DB | 10.222 | 10.125 | 10.325 | 823.210 | 712.500 | 15.5 |
| 2,4-DCAA | 7.332 | 7.233 | 7.433 | 740.320 | 750.000 | -1.3 |
| DICAMBA | 7.521 | 7.422 | 7.622 | 693.960 | 705.000 | -1.6 |
| DICHLORPROP | 8.233 | 8.135 | 8.335 | 699.300 | 705.000 | -0.8 |
| Dinoseb | 11.438 | 11.339 | 11.539 | 758.250 | 705.000 | 7.6 |

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## CALIBRATION VERIFICATION SUMMARY

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 07/11/2025 07/11/2025

**Client Sample No.:** CCAL06 **Date Analyzed:** 07/11/2025

**Lab Sample No.:** HSTDCCC750 **Data File :** PS031019.D **Time Analyzed:** 22:02

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 10.358 | 10.258 | 10.458 | 690.990 | 712.500 | -3.0 |
| 2,4,5-TP(Silvex) | 9.932 | 9.832 | 10.032 | 689.220 | 712.500 | -3.3 |
| 2,4-D | 9.026 | 8.927 | 9.127 | 669.050 | 705.000 | -5.1 |
| 2,4-DB | 10.926 | 10.826 | 11.026 | 677.520 | 712.500 | -4.9 |
| 2,4-DCAA | 7.769 | 7.669 | 7.869 | 711.250 | 750.000 | -5.2 |
| DICAMBA | 7.971 | 7.871 | 8.071 | 684.630 | 705.000 | -2.9 |
| DICHLORPROP | 8.690 | 8.591 | 8.791 | 663.820 | 705.000 | -5.8 |
| Dinoseb | 11.310 | 11.210 | 11.410 | 673.080 | 705.000 | -4.5 |

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# Analytical Sequence

**Client:** CDM Smith **SDG No.:** Q2514

**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 | 07/09/2025 | 09:32 | PS030958.D | 7.34 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/09/2025 | 11:36 | PS030959.D | 7.34 | 0.00 |
| WC-11MS | Q2493-01MS | 07/09/2025 | 12:24 | PS030961.D | 7.34 | 0.00 |
| WC-11MSD | Q2493-01MSD | 07/09/2025 | 12:48 | PS030962.D | 7.34 | 0.00 |
| PB168753BL | PB168753BL | 07/09/2025 | 13:12 | PS030963.D | 7.34 | 0.00 |
| PB168753BS | PB168753BS | 07/09/2025 | 13:36 | PS030964.D | 7.34 | 0.00 |
| I.BLK | I.BLK | 07/09/2025 | 14:28 | PS030966.D | 7.34 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/09/2025 | 14:52 | PS030967.D | 7.34 | 0.00 |
| I.BLK | I.BLK | 07/10/2025 | 16:34 | PS030989.D | 7.34 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/10/2025 | 16:59 | PS030990.D | 7.33 | 0.00 |
| TP-92 | Q2514-01 | 07/10/2025 | 18:11 | PS030992.D | 7.33 | 0.00 |
| TP-93 | Q2514-02 | 07/10/2025 | 18:35 | PS030993.D | 7.33 | 0.00 |
| TP-94 | Q2514-03 | 07/10/2025 | 19:00 | PS030994.D | 7.33 | 0.00 |
| TP-96 | Q2514-04 | 07/10/2025 | 19:24 | PS030995.D | 7.33 | 0.00 |
| TP-97 | Q2514-05 | 07/10/2025 | 19:48 | PS030996.D | 7.33 | 0.00 |
| TP-103 | Q2514-06 | 07/10/2025 | 20:12 | PS030997.D | 7.33 | 0.00 |
| TP-36 | Q2514-07 | 07/10/2025 | 20:36 | PS030998.D | 7.33 | 0.00 |
| TP-78 | Q2514-08 | 07/10/2025 | 21:00 | PS030999.D | 7.33 | 0.00 |
| TP-81 | Q2514-09 | 07/10/2025 | 21:25 | PS031000.D | 7.33 | 0.00 |
| TP-90 | Q2514-10 | 07/10/2025 | 21:49 | PS031001.D | 7.33 | 0.00 |
| I.BLK | I.BLK | 07/10/2025 | 22:13 | PS031002.D | 7.33 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/10/2025 | 23:00 | PS031003.D | 7.33 | 0.00 |
| I.BLK | I.BLK | 07/11/2025 | 15:35 | PS031005.D | 7.33 | 0.00 |
| HSTDICC200 | HSTDICC200 | 07/11/2025 | 16:00 | PS031006.D | 7.33 | 0.00 |
| HSTDICC500 | HSTDICC500 | 07/11/2025 | 16:24 | PS031007.D | 7.33 | 0.00 |
| HSTDICC750 | HSTDICC750 | 07/11/2025 | 16:48 | PS031008.D | 7.33 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 07/11/2025 | 17:12 | PS031009.D | 7.33 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 07/11/2025 | 17:36 | PS031010.D | 7.33 | 0.00 |
| I.BLK | I.BLK | 07/11/2025 | 18:25 | PS031012.D | 7.33 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/11/2025 | 18:49 | PS031013.D | 7.33 | 0.00 |
| TP-90RE | Q2514-10RE | 07/11/2025 | 20:25 | PS031015.D | 7.33 | 0.00 |
| I.BLK | I.BLK | 07/11/2025 | 21:38 | PS031018.D | 7.33 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/11/2025 | 22:02 | PS031019.D | 7.33 | 0.00 |

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# Analytical Sequence

**Client:** CDM Smith **SDG No.:** Q2514

**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 | 07/09/2025 | 09:32 | PS030958.D | 7.77 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/09/2025 | 11:36 | PS030959.D | 7.76 | 0.00 |
| WC-11MS | Q2493-01MS | 07/09/2025 | 12:24 | PS030961.D | 7.77 | 0.00 |
| WC-11MSD | Q2493-01MSD | 07/09/2025 | 12:48 | PS030962.D | 7.77 | 0.00 |
| PB168753BL | PB168753BL | 07/09/2025 | 13:12 | PS030963.D | 7.77 | 0.00 |
| PB168753BS | PB168753BS | 07/09/2025 | 13:36 | PS030964.D | 7.77 | 0.00 |
| I.BLK | I.BLK | 07/09/2025 | 14:28 | PS030966.D | 7.77 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/09/2025 | 14:52 | PS030967.D | 7.77 | 0.00 |
| I.BLK | I.BLK | 07/10/2025 | 16:34 | PS030989.D | 7.77 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/10/2025 | 16:59 | PS030990.D | 7.77 | 0.00 |
| TP-92 | Q2514-01 | 07/10/2025 | 18:11 | PS030992.D | 7.77 | 0.00 |
| TP-93 | Q2514-02 | 07/10/2025 | 18:35 | PS030993.D | 7.77 | 0.00 |
| TP-94 | Q2514-03 | 07/10/2025 | 19:00 | PS030994.D | 7.77 | 0.00 |
| TP-96 | Q2514-04 | 07/10/2025 | 19:24 | PS030995.D | 7.77 | 0.00 |
| TP-97 | Q2514-05 | 07/10/2025 | 19:48 | PS030996.D | 7.77 | 0.00 |
| TP-103 | Q2514-06 | 07/10/2025 | 20:12 | PS030997.D | 7.77 | 0.00 |
| TP-36 | Q2514-07 | 07/10/2025 | 20:36 | PS030998.D | 7.77 | 0.00 |
| TP-78 | Q2514-08 | 07/10/2025 | 21:00 | PS030999.D | 7.77 | 0.00 |
| TP-81 | Q2514-09 | 07/10/2025 | 21:25 | PS031000.D | 7.77 | 0.00 |
| TP-90 | Q2514-10 | 07/10/2025 | 21:49 | PS031001.D | 7.77 | 0.00 |
| I.BLK | I.BLK | 07/10/2025 | 22:13 | PS031002.D | 7.77 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/10/2025 | 23:00 | PS031003.D | 7.77 | 0.00 |
| I.BLK | I.BLK | 07/11/2025 | 15:35 | PS031005.D | 7.77 | 0.00 |
| HSTDICC200 | HSTDICC200 | 07/11/2025 | 16:00 | PS031006.D | 7.77 | 0.00 |
| HSTDICC500 | HSTDICC500 | 07/11/2025 | 16:24 | PS031007.D | 7.77 | 0.00 |
| HSTDICC750 | HSTDICC750 | 07/11/2025 | 16:48 | PS031008.D | 7.77 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 07/11/2025 | 17:12 | PS031009.D | 7.77 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 07/11/2025 | 17:36 | PS031010.D | 7.77 | 0.00 |
| I.BLK | I.BLK | 07/11/2025 | 18:25 | PS031012.D | 7.77 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/11/2025 | 18:49 | PS031013.D | 7.77 | 0.00 |
| TP-90RE | Q2514-10RE | 07/11/2025 | 20:25 | PS031015.D | 7.78 | 0.00 |
| I.BLK | I.BLK | 07/11/2025 | 21:38 | PS031018.D | 7.77 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 07/11/2025 | 22:02 | PS031019.D | 7.77 | 0.00 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB168753BS**

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Lab Sample ID:** PB168753BS **Date(s) Analyzed:** 07/09/2025 07/09/2025

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

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| DICHLORPROP | 1 | 8.24 | 8.19 | 8.29 | 163 | 2.5 |
| | 2 | 8.69 | 8.64 | 8.74 | 159 | |
| 2,4-D | 1 | 8.47 | 8.42 | 8.52 | 170 | 10.5 |
| | 2 | 9.03 | 8.98 | 9.08 | 153 | |
| 2,4,5-TP(Silvex) | 1 | 9.36 | 9.31 | 9.41 | 176 | 5.2 |
| | 2 | 9.93 | 9.88 | 9.98 | 167 | |
| 2,4,5-T | 1 | 9.65 | 9.60 | 9.70 | 185 | 9.6 |
| | 2 | 10.36 | 10.31 | 10.41 | 168 | |
| 2,4-DB | 1 | 10.23 | 10.18 | 10.28 | 193 | 18.1 |
| | 2 | 10.93 | 10.88 | 10.98 | 161 | |
| Dinoseb | 1 | 11.45 | 11.40 | 11.50 | 168 | 9.3 |
| | 2 | 11.31 | 11.26 | 11.36 | 153 | |
| DICAMBA | 1 | 7.53 | 7.48 | 7.58 | 172 | 6 |
| | 2 | 7.97 | 7.92 | 8.02 | 162 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WC-11MS**

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Lab Sample ID:** Q2493-01MS **Date(s) Analyzed:** 07/09/2025 07/09/2025

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

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| DICHLORPROP | 1 | 8.24 | 8.19 | 8.29 | 144 | 1.4 |
| | 2 | 8.69 | 8.64 | 8.74 | 142 | |
| 2,4-D | 1 | 8.46 | 8.41 | 8.51 | 545 | 125.9 |
| | 2 | 9.03 | 8.98 | 9.08 | 124 | |
| 2,4,5-TP(Silvex) | 1 | 9.36 | 9.31 | 9.41 | 143 | 0.7 |
| | 2 | 9.93 | 9.88 | 9.98 | 142 | |
| 2,4,5-T | 1 | 9.65 | 9.60 | 9.70 | 155 | 10.2 |
| | 2 | 10.36 | 10.31 | 10.41 | 140 | |
| 2,4-DB | 1 | 10.23 | 10.18 | 10.28 | 134 | 13.5 |
| | 2 | 10.93 | 10.88 | 10.98 | 117 | |
| DICAMBA | 1 | 7.53 | 7.48 | 7.58 | 137 | 3 |
| | 2 | 7.97 | 7.92 | 8.02 | 133 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WC-11MSD**

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **SDG NO.:** Q2514

**Lab Sample ID:** Q2493-01MSD **Date(s) Analyzed:** 07/09/2025 07/09/2025

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

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| DICAMBA | 1 | 7.53 | 7.48 | 7.58 | 138 | 3.7 |
| | 2 | 7.97 | 7.92 | 8.02 | 133 | |
| DICHLORPROP | 1 | 8.24 | 8.19 | 8.29 | 133 | 7.2 |
| | 2 | 8.69 | 8.64 | 8.74 | 143 | |
| 2,4-D | 1 | 8.46 | 8.41 | 8.51 | 562 | 125.8 |
| | 2 | 9.03 | 8.98 | 9.08 | 128 | |
| 2,4,5-TP(Silvex) | 1 | 9.36 | 9.31 | 9.41 | 144 | 0.7 |
| | 2 | 9.93 | 9.88 | 9.98 | 143 | |
| 2,4,5-T | 1 | 9.65 | 9.60 | 9.70 | 159 | 11.3 |
| | 2 | 10.36 | 10.31 | 10.41 | 142 | |
| 2,4-DB | 1 | 10.23 | 10.18 | 10.28 | 126 | 5.7 |
| | 2 | 10.93 | 10.88 | 10.98 | 119 | |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2514 | **OrderDate:** | 7/3/2025 1:29:00 PM |
| **Client:** | CDM Smith | **Project:** | South River WM Replacement |
| **Contact:** | Marcie Ann Encinas | **Location:** | O21,O22,VOA Lab |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2514-01** | **TP-92** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-02** | **TP-93** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-03** | **TP-94** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-04** | **TP-96** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-05** | **TP-97** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | | 07/09/25 | |
| | | | PCB | 8082A | | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | | 07/07/25 | 07/07/25 | |
| **Q2514-06** | **TP-103** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | | 07/08/25 | 07/08/25 | |

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## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Gasoline Range Organics | 8015D | | 07/09/25 | |
| | | | PCB | 8082A | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | 07/07/25 | 07/07/25 | |
| **Q2514-07** | **TP-36** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | 07/09/25 | |
| | | | PCB | 8082A | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | 07/07/25 | 07/07/25 | |
| **Q2514-08** | **TP-78** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | 07/09/25 | |
| | | | PCB | 8082A | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | 07/07/25 | 07/07/25 | |
| **Q2514-09** | **TP-81** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | 07/09/25 | |
| | | | PCB | 8082A | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | 07/07/25 | 07/07/25 | |
| **Q2514-10** | **TP-90** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Diesel Range Organics | 8015D | 07/08/25 | 07/08/25 | |
| | | | Gasoline Range Organics | 8015D | | 07/09/25 | |
| | | | PCB | 8082A | 07/07/25 | 07/08/25 | |
| | | | Pesticide-TCL | 8081B | 07/07/25 | 07/07/25 | |

# SAMPLE DATA

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 87.4 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 |
|---|---|---|---|---|
| FG016254.D | 1 | 07/08/25 08:35 | 07/08/25 19:54 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 2460 | | 193 | 1900 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 9.74 | | 37 - 130 | 49% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 87.7 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1 mL |
| Soil Aliquot Vol: | uL | Test: | Diesel Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| FF016107.D | 1 | 07/08/25 08:35 | 07/08/25 17:54 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 13200 | | 193 | 1900 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 8.76 | | 37 - 130 | 44% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 88.1 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 |
|---|---|---|---|---|
| FG016255.D | 1 | 07/08/25 08:35 | 07/08/25 20:23 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 9120 | | 192 | 1890 | 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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 85.8 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 |
|---|---|---|---|---|
| FF016108.D | 1 | 07/08/25 08:35 | 07/08/25 18:24 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 22500 | | 197 | 1940 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 8.73 | | 37 - 130 | 44% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 85 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 |
|---|---|---|---|---|
| FG016256.D | 1 | 07/08/25 08:35 | 07/08/25 20:54 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 5350 | | 198 | 1960 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 9.61 | | 37 - 130 | 48% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 86.5 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 |
|---|---|---|---|---|
| FF016109.D | 1 | 07/08/25 08:35 | 07/08/25 18:54 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 9020 | | 195 | 1920 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 7.71 | | 37 - 130 | 39% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 90.3 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 |
|---|---|---|---|---|
| FG016257.D | 1 | 07/08/25 08:35 | 07/08/25 21:23 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 2080 | | 187 | 1840 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 8.92 | | 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: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 86.3 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 |
|---|---|---|---|---|
| FG016258.D | 1 | 07/08/25 08:35 | 07/08/25 21:53 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 3420 | | 196 | 1930 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 9.64 | | 37 - 130 | 48% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 86.3 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1 mL |
| Soil Aliquot Vol: | uL | Test: | Diesel Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| FG016259.D | 1 | 07/08/25 08:35 | 07/08/25 22:23 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 2790 | | 196 | 1930 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 9.18 | | 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: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 91.6 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 |
|---|---|---|---|---|
| FF016101.D | 1 | 07/08/25 08:35 | 07/08/25 13:54 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 18300 | | 184 | 1820 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 8.82 | | 37 - 130 | 44% | SPK: 20 |

Comments:

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

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

# QC SUMMARY

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## SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance Client: CDM Smith

Lab Code: ACE SDG No.: Q2514

| CLIENT ID | S1 TETRACOSANE-d50 | S2 | S3 | S4 | TOT OUT |
|---|---|---|---|---|---|
| PIBLK-FF016097.D | 81 | | | | 0 |
| PIBLK-FF016105.D | 74 | | | | 0 |
| PIBLK-FF016113.D | 76 | | | | 0 |
| PIBLK-FG016244.D | 90 | | | | 0 |
| PIBLK-FG016252.D | 93 | | | | 0 |
| PIBLK-FG016260.D | 96 | | | | 0 |
| PIBLK-FG016282.D | 92 | | | | 0 |
| PIBLK-FG016286.D | 94 | | | | 0 |
| PB168751BL | 79 | | | | 0 |
| PB168751BS | 90 | | | | 0 |
| G4(6-12)MS | 54 | | | | 0 |
| G4(6-12)MSD | 54 | | | | 0 |
| TP-92 | 49 | | | | 0 |
| TP-93 | 44 | | | | 0 |
| TP-94 | 51 | | | | 0 |
| TP-96 | 44 | | | | 0 |
| TP-97 | 48 | | | | 0 |
| TP-103 | 39 | | | | 0 |
| TP-36 | 45 | | | | 0 |
| TP-78 | 48 | | | | 0 |
| TP-81 | 46 | | | | 0 |
| TP-90 | 44 | | | | 0 |

| | QC LIMITS |
|---|---|
| TETRACOSANE-d50 | For Water : 29-130<br>For Soil : 37-130 |

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

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## SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

**Lab Code:** ACE **SDG No:** Q2514

**Client Sample ID :** G4(6-12)MS **Datafile:** FG016249.D

| COMPOUND | SPIKE ADDED ug/kg | SAMPLE CONCENTRATION ug/kg | MS/MSD CONCENTRATION ug/kg | % REC | Qual | QC LIMITS(%) |
|---|---|---|---|---|---|---|
| DRO | 9177 | 14500 | 18070 | 38% | * | 68-131 |

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## SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

**Lab Code:** ACE **SDG No:** Q2514

**Client Sample ID :** G4(6-12)MSD **Datafile:** FG016250.D

| COMPOUND | SPIKE ADDED ug/kg | SAMPLE CONCENTRATION ug/kg | MS/MSD CONCENTRATION ug/kg | % REC | Qual | QC LIMITS(%) |
|---|---|---|---|---|---|---|
| DRO | 9164 | 14500 | 18533 | 44% | * | 68-131 |

**MS/MSD % Recovery RPD :** 2.7

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## SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI

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

**Lab Code:** ACE **SDG No:** Q2514

**Client Sample ID :** PB168751BS **Datafile:** FG016285.D

| COMPOUND | SPIKE ADDED ug/kg | CONCENTRATION ug/kg | LCS/LCSD CONCENTRATION ug/kg | % REC | QC LIMITS (%) |
|---|---|---|---|---|---|
| DRO | 6660 | 0 | 5551 | 83 | 68-131 |

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4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
PB168751BL

Lab Name: Alliance
Contract: CAMP02
Lab Code: ACE
SDG NO.: Q2514
Lab File ID: FG016247.D
Lab Sample ID: PB168751BL
Instrument ID: FG
Date Extracted: 07/08/2025
Matrix: (soil/water) Soil
Date Analyzed: 07/08/25
Level: (low/med) low
Time Analyzed: 15:24

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

| CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| TP-90 | Q2514-10 | FF016101.D | 07/08/25 |
| TP-93 | Q2514-02 | FF016107.D | 07/08/25 |
| TP-96 | Q2514-04 | FF016108.D | 07/08/25 |
| TP-103 | Q2514-06 | FF016109.D | 07/08/25 |
| G4(6-12)MS | Q2487-10MS | FG016249.D | 07/08/25 |
| G4(6-12)MSD | Q2487-10MSD | FG016250.D | 07/08/25 |
| TP-92 | Q2514-01 | FG016254.D | 07/08/25 |
| TP-94 | Q2514-03 | FG016255.D | 07/08/25 |
| TP-97 | Q2514-05 | FG016256.D | 07/08/25 |
| TP-36 | Q2514-07 | FG016257.D | 07/08/25 |
| TP-78 | Q2514-08 | FG016258.D | 07/08/25 |
| TP-81 | Q2514-09 | FG016259.D | 07/08/25 |
| PB168751BS | PB168751BS | FG016285.D | 07/10/25 |

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: | PB168751BL | SDG No.: | Q2514 |
| Lab Sample ID: | PB168751BL | 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 |
|---|---|---|---|---|
| FG016247.D | 1 | 07/08/25 08:35 | 07/08/25 15:24 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 169 | U | 169 | 1670 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 15.8 | | 37 - 130 | 79% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/08/25 |
| Project: | South River WM Replacement | Date Received: | 07/08/25 |
| Client Sample ID: | PIBLK-FF016097.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-FF016097.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 |
|---|---|---|---|---|
| FF016097.D | 1 | | 07/08/25 | FF070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 6.00 | U | 6.00 | 50.0 | ug/L |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 16.2 | | 29 - 130 | 81% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/08/25 |
| Project: | South River WM Replacement | Date Received: | 07/08/25 |
| Client Sample ID: | PIBLK-FF016105.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-FF016105.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 |
|---|---|---|---|---|
| FF016105.D | 1 | | 07/08/25 | FF070825 |

| 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 | 14.8 | | 29 - 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: | 07/08/25 |
| Project: | South River WM Replacement | Date Received: | 07/08/25 |
| Client Sample ID: | PIBLK-FF016113.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-FF016113.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 |
|---|---|---|---|---|
| FF016113.D | 1 | | 07/08/25 | FF070825 |

| 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 | 15.3 | | 29 - 130 | 76% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/08/25 |
| Project: | South River WM Replacement | Date Received: | 07/08/25 |
| Client Sample ID: | PIBLK-FG016244.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-FG016244.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 |
|---|---|---|---|---|
| FG016244.D | 1 | | 07/08/25 | FG070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 6.00 | U | 6.00 | 50.0 | ug/L |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 17.9 | | 29 - 130 | 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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/08/25 |
| Project: | South River WM Replacement | Date Received: | 07/08/25 |
| Client Sample ID: | PIBLK-FG016252.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-FG016252.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 |
|---|---|---|---|---|
| FG016252.D | 1 | | 07/08/25 | FG070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 6.00 | U | 6.00 | 50.0 | ug/L |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 18.7 | | 29 - 130 | 93% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/08/25 |
| Project: | South River WM Replacement | Date Received: | 07/08/25 |
| Client Sample ID: | PIBLK-FG016260.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-FG016260.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 |
|---|---|---|---|---|
| FG016260.D | 1 | | 07/08/25 | FG070825 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 6.00 | U | 6.00 | 50.0 | ug/L |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 19.2 | | 29 - 130 | 96% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/10/25 |
| Project: | South River WM Replacement | Date Received: | 07/10/25 |
| Client Sample ID: | PIBLK-FG016282.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-FG016282.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 |
|---|---|---|---|---|
| FG016282.D | 1 | | 07/10/25 | FG071025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 6.00 | U | 6.00 | 50.0 | ug/L |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 18.4 | | 29 - 130 | 92% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/10/25 |
| Project: | South River WM Replacement | Date Received: | 07/10/25 |
| Client Sample ID: | PIBLK-FG016286.D | SDG No.: | Q2514 |
| Lab Sample ID: | I.BLK-FG016286.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 |
|---|---|---|---|---|
| FG016286.D | 1 | | 07/10/25 | FG071025 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 6.00 | U | 6.00 | 50.0 | ug/L |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 18.8 | | 29 - 130 | 94% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | |
| Project: | South River WM Replacement | Date Received: | |
| Client Sample ID: | PB168751BS | SDG No.: | Q2514 |
| Lab Sample ID: | PB168751BS | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1 mL |
| Soil Aliquot Vol: | uL | Test: | Diesel Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| FG016285.D | 1 | 07/08/25 08:35 | 07/10/25 21:11 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 5550 | | 169 | 1670 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 17.9 | | 37 - 130 | 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

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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: | G4(6-12)MS | SDG No.: | Q2514 |
| Lab Sample ID: | Q2487-10MS | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 72.6 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 |
|---|---|---|---|---|
| FG016249.D | 1 | 07/08/25 08:35 | 07/08/25 16:54 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 18100 | | 233 | 2290 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 10.8 | | 37 - 130 | 54% | SPK: 20 |

Comments:

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

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

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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: | G4(6-12)MSD | SDG No.: | Q2514 |
| Lab Sample ID: | Q2487-10MSD | Matrix: | SOIL |
| Analytical Method: | 8015D DRO | % Solid: | 72.6 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 |
|---|---|---|---|---|
| FG016250.D | 1 | 07/08/25 08:35 | 07/08/25 17:24 | PB168751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| DRO | DRO | 18500 | | 232 | 2290 | ug/kg |
| **SURROGATES** | | | | | | |
| 16416-32-3 | Tetracosane-d50 | 10.8 | | 37 - 130 | 54% | SPK: 20 |

Comments:

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

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

# CALIBRATION SUMMARY

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## DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2514

| Calibration Sequence : FF061325 | | Test : Diesel Range Organics | |
|---|---|---|---|
| **Concentration (PPM)** | **Area Count** | **Reference Factor** | **File ID** |
| 1000 | 128762116 | 128762 | FF015964.D |
| 500 | 64295722 | 128591 | FF015965.D |
| 200 | 27169561 | 135848 | FF015966.D |
| 100 | 13526499 | 135265 | FF015967.D |
| 50 | 7306219 | 146124 | FF015968.D |
| **AVG RF :** 134918 | **% RSD : 5.299** | | **AVG RT : 15.0944** |

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## DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2514

| 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 INITIAL CALIBRATION SUMMARY

Lab Name: Alliance
Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE
SDG No.: Q2514

| Calibration Sequence : FG070925 | | Test : Diesel Range Organics | |
|---|---|---|---|
| **Concentration (PPM)** | **Area Count** | **Reference Factor** | **File ID** |
| 1000 | 107457449 | 107457 | FG016264.D |
| 500 | 53927299 | 107855 | FG016265.D |
| 200 | 23004292 | 115021 | FG016266.D |
| 100 | 12319443 | 123194 | FG016267.D |
| 50 | 6076250 | 121525 | FG016268.D |
| **AVG RF :** 115010 | **% RSD : 6.414** | | **AVG RT : 15.201** |

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## DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**50 PPM TRPH STD**

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2514

DataFile: FF016098.D Analyst Name: YP\AJ Analyst Date: 07-08-2025

| Conc. (PPM) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 500 | 70748965 | 141498 | 134918 | 4.877 |

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## DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**50 PPM TRPH STD**

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2514

DataFile: FF016106.D Analyst Name: YP\AJ Analyst Date: 07-08-2025

| Conc. (PPM) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 500 | 65780168 | 131560 | 134918 | 2.489 |

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## DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**50 PPM TRPH STD**

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2514

DataFile: FF016114.D Analyst Name: YP\AJ Analyst Date: 07-08-2025

| Conc. (PPM) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 500 | 65515978 | 131032 | 134918 | 2.88 |

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## DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**50 PPM TRPH STD**

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2514

DataFile: FG016245.D Analyst Name: YP\AJ Analyst Date: 07-08-2025

| Conc. (PPM) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 500 | 61154300 | 122309 | 130550 | 6.313 |

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## DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**50 PPM TRPH STD**

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2514

DataFile: FG016253.D Analyst Name: YP\AJ Analyst Date: 07-08-2025

| Conc. (PPM) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 500 | 61989135 | 123978 | 130550 | 5.034 |

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## DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**50 PPM TRPH STD**

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2514

DataFile: FG016261.D Analyst Name: YP\AJ Analyst Date: 07-08-2025

| Conc. (PPM) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 500 | 62931063 | 125862 | 130550 | 3.591 |

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## DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**50 PPM TRPH STD**

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2514

DataFile: FG016283.D Analyst Name: YP\AJ Analyst Date: 07-10-2025

| Conc. (PPM) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 500 | 61634631 | 123269 | 115010 | 7.181 |

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## DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**50 PPM TRPH STD**

Lab Name: Alliane Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE SDG No.: Q2514

DataFile: FG016287.D Analyst Name: YP\AJ Analyst Date: 07-10-2025

| Conc. (PPM) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 500 | 62962280 | 125925 | 115010 | 9.49 |

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# Analytical Sequence

**Client:** CDM Smith **SDG No.:** Q2514

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

**GC Column:** RXI-1MS **ID:** 0.18 **(mm)**

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

**MEAN SUROGATE RT FROM INITIAL CALIBRATION** **15.0944**

| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE AND TIME ANALYZED | DATAFILE | RT | # |
|---|---|---|---|---|---|
| PIBLK01 | I.BLK01 | 08 Jul 2025 10:54 | FF016097.D | 15.094 | |
| 50 PPM TRPH STD | 50 PPM TRPH STD | 08 Jul 2025 11:55 | FF016098.D | 15.098 | |
| TP-90 | Q2514-10 | 08 Jul 2025 13:54 | FF016101.D | 15.098 | |
| PIBLK02 | I.BLK02 | 08 Jul 2025 15:54 | FF016105.D | 15.104 | |
| 50 PPM TRPH STD | 50 PPM TRPH STD | 08 Jul 2025 16:54 | FF016106.D | 15.106 | |
| TP-93 | Q2514-02 | 08 Jul 2025 17:54 | FF016107.D | 15.102 | |
| TP-96 | Q2514-04 | 08 Jul 2025 18:24 | FF016108.D | 15.104 | |
| TP-103 | Q2514-06 | 08 Jul 2025 18:54 | FF016109.D | 15.101 | |
| PIBLK03 | I.BLK03 | 08 Jul 2025 20:54 | FF016113.D | 15.107 | |
| 50 PPM TRPH STD | 50 PPM TRPH STD | 08 Jul 2025 21:53 | FF016114.D | 15.109 | |
| PIBLK04 | I.BLK04 | 08 Jul 2025 13:54 | FG016244.D | 15.203 | |
| 50 PPM TRPH STD | 50 PPM TRPH STD | 08 Jul 2025 14:24 | FG016245.D | 15.205 | |
| PB168751BL | PB168751BL | 08 Jul 2025 15:24 | FG016247.D | 15.201 | |
| G4(6-12)MS | Q2487-10MS | 08 Jul 2025 16:54 | FG016249.D | 15.201 | |
| G4(6-12)MSD | Q2487-10MSD | 08 Jul 2025 17:24 | FG016250.D | 15.202 | |
| PIBLK05 | I.BLK05 | 08 Jul 2025 18:24 | FG016252.D | 15.201 | |
| 50 PPM TRPH STD | 50 PPM TRPH STD | 08 Jul 2025 18:54 | FG016253.D | 15.205 | |
| TP-92 | Q2514-01 | 08 Jul 2025 19:54 | FG016254.D | 15.201 | |
| TP-94 | Q2514-03 | 08 Jul 2025 20:23 | FG016255.D | 15.200 | |
| TP-97 | Q2514-05 | 08 Jul 2025 20:54 | FG016256.D | 15.200 | |
| TP-36 | Q2514-07 | 08 Jul 2025 21:23 | FG016257.D | 15.200 | |
| TP-78 | Q2514-08 | 08 Jul 2025 21:53 | FG016258.D | 15.199 | |
| TP-81 | Q2514-09 | 08 Jul 2025 22:23 | FG016259.D | 15.198 | |
| PIBLK06 | I.BLK06 | 08 Jul 2025 22:52 | FG016260.D | 15.200 | |
| 50 PPM TRPH STD | 50 PPM TRPH STD | 08 Jul 2025 23:52 | FG016261.D | 15.202 | |
| PIBLK07 | I.BLK07 | 10 Jul 2025 19:11 | FG016282.D | 15.206 | |
| 50 PPM TRPH STD | 50 PPM TRPH STD | 10 Jul 2025 19:41 | FG016283.D | 15.209 | |
| PB168751BS | PB168751BS | 10 Jul 2025 21:11 | FG016285.D | 15.204 | |
| PIBLK08 | I.BLK08 | 10 Jul 2025 21:41 | FG016286.D | 15.205 | |
| 50 PPM TRPH STD | 50 PPM TRPH STD | 10 Jul 2025 22:10 | FG016287.D | 15.208 | |

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

| QC Limits | Lower Limit | Upper Limits |
|---|---|---|
| (± 0.10 minutes) | 15.101 | 15.301 |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2514 | **OrderDate:** | 7/3/2025 1:29:00 PM |
| **Client:** | CDM Smith | **Project:** | South River WM Replacement |
| **Contact:** | Marcie Ann Encinas | **Location:** | O21,O22,VOA Lab |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2514-01** | **TP-92** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Mercury | 7471B | | 07/15/25 | 07/16/25 | |
| | | | Metals ICP-TAL | 6010D | | 07/07/25 | 07/09/25 | |
| **Q2514-02** | **TP-93** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Mercury | 7471B | | 07/15/25 | 07/16/25 | |
| | | | Metals ICP-TAL | 6010D | | 07/07/25 | 07/09/25 | |
| **Q2514-03** | **TP-94** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Mercury | 7471B | | 07/15/25 | 07/16/25 | |
| | | | Metals ICP-TAL | 6010D | | 07/07/25 | 07/09/25 | |
| **Q2514-04** | **TP-96** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Mercury | 7471B | | 07/15/25 | 07/16/25 | |
| | | | Metals ICP-TAL | 6010D | | 07/07/25 | 07/09/25 | |
| **Q2514-05** | **TP-97** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Mercury | 7471B | | 07/15/25 | 07/16/25 | |
| | | | Metals ICP-TAL | 6010D | | 07/07/25 | 07/09/25 | |
| **Q2514-06** | **TP-103** | **SOIL** | | | **07/02/25** | | | **07/03/25** |
| | | | Mercury | 7471B | | 07/15/25 | 07/16/25 | |
| | | | Metals ICP-TAL | 6010D | | 07/07/25 | 07/09/25 | |
| **Q2514-07** | **TP-36** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | Mercury | 7471B | | 07/15/25 | 07/16/25 | |
| | | | Metals ICP-TAL | 6010D | | 07/07/25 | 07/09/25 | |
| **Q2514-08** | **TP-78** | **SOIL** | | | **07/03/25** | | | **07/03/25** |
| | | | Mercury | 7471B | | 07/15/25 | 07/16/25 | |
| | | | Metals ICP-TAL | 6010D | | 07/07/25 | 07/09/25 | |
| **Q2514-09** | **TP-81** | **SOIL** | | | **07/03/25** | | | **07/03/25** |

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## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Mercury | 7471B | | 07/15/25 | 07/16/25 |
| | | | Metals ICP-TAL | 6010D | | 07/07/25 | 07/09/25 |
| **Q2514-10** | **TP-90** | **SOIL** | | | **07/03/25** | | **07/03/25** |
| | | | Mercury | 7471B | | 07/15/25 | 07/16/25 |
| | | | Metals ICP-TAL | 6010D | | 07/07/25 | 07/09/25 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2514 **Order ID:** Q2514

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

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : TP-92** | | | | | | | | |
| Q2514-01 | TP-92 | SOIL | Aluminum | 8400 | | 0.84 | 5.00 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Antimony | 1.32 | J | 0.22 | 2.50 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Arsenic | 6.73 | | 0.19 | 1.00 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Barium | 53.0 | | 0.73 | 5.00 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Beryllium | 0.79 | | 0.025 | 0.30 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Calcium | 180 | | 11.1 | 99.9 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Chromium | 11.4 | | 0.047 | 0.50 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Cobalt | 2.27 | | 0.10 | 1.50 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Copper | 1.26 | | 0.22 | 1.00 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Iron | 23500 | | 3.99 | 5.00 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Lead | 11.9 | | 0.13 | 0.60 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Magnesium | 353 | | 12.0 | 99.9 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Manganese | 38.3 | | 0.14 | 1.00 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Mercury | 0.021 | | 0.0080 | 0.014 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Nickel | 4.82 | | 0.13 | 2.00 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Potassium | 409 | | 27.7 | 99.9 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Selenium | 6.28 | | 0.26 | 1.00 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Silver | 0.19 | J | 0.12 | 0.50 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Sodium | 364 | | 17.8 | 99.9 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Vanadium | 22.9 | | 0.25 | 2.00 | mg/Kg |
| Q2514-01 | TP-92 | SOIL | Zinc | 21.7 | | 0.11 | 2.00 | mg/Kg |
| **Client ID : TP-93** | | | | | | | | |
| Q2514-02 | TP-93 | SOIL | Aluminum | 7940 | | 0.84 | 5.02 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Antimony | 1.62 | J | 0.22 | 2.51 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Arsenic | 10.3 | | 0.19 | 1.00 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Barium | 17.1 | | 0.73 | 5.02 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Beryllium | 0.82 | | 0.025 | 0.30 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Calcium | 383 | | 11.2 | 100 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Chromium | 22.5 | | 0.047 | 0.50 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Cobalt | 2.51 | | 0.10 | 1.51 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Copper | 4.12 | | 0.22 | 1.00 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Iron | 25400 | | 4.01 | 5.02 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Lead | 11.0 | | 0.13 | 0.60 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Magnesium | 388 | | 12.1 | 100 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Manganese | 44.0 | | 0.14 | 1.00 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Mercury | 0.022 | | 0.0080 | 0.014 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Nickel | 5.06 | | 0.13 | 2.01 | mg/Kg |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2514 **Order ID:** Q2514

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

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| Q2514-02 | TP-93 | SOIL | Potassium | 337 | | 27.8 | 100 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Selenium | 6.69 | | 0.26 | 1.00 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Silver | 0.17 | J | 0.12 | 0.50 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Sodium | 707 | | 17.9 | 100 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Vanadium | 40.1 | | 0.25 | 2.01 | mg/Kg |
| Q2514-02 | TP-93 | SOIL | Zinc | 16.5 | | 0.11 | 2.01 | mg/Kg |
| **Client ID : TP-94** | | | | | | | | |
| Q2514-03 | TP-94 | SOIL | Aluminum | 9340 | | 0.81 | 4.79 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Antimony | 1.43 | J | 0.21 | 2.39 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Arsenic | 9.25 | | 0.18 | 0.96 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Barium | 22.9 | | 0.70 | 4.79 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Beryllium | 0.80 | | 0.024 | 0.29 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Calcium | 120 | | 10.6 | 95.8 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Chromium | 17.2 | | 0.045 | 0.48 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Cobalt | 3.41 | | 0.096 | 1.44 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Copper | 4.08 | | 0.21 | 0.96 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Iron | 23700 | | 3.82 | 4.79 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Lead | 15.5 | | 0.13 | 0.57 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Magnesium | 686 | | 11.5 | 95.8 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Manganese | 51.5 | | 0.13 | 0.96 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Mercury | 0.036 | | 0.0080 | 0.014 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Nickel | 6.62 | | 0.13 | 1.92 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Potassium | 373 | | 26.5 | 95.8 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Selenium | 6.45 | | 0.25 | 0.96 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Sodium | 245 | | 17.1 | 95.8 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Vanadium | 35.4 | | 0.24 | 1.92 | mg/Kg |
| Q2514-03 | TP-94 | SOIL | Zinc | 19.0 | | 0.11 | 1.92 | mg/Kg |
| **Client ID : TP-96** | | | | | | | | |
| Q2514-04 | TP-96 | SOIL | Aluminum | 11000 | | 0.83 | 4.94 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Antimony | 1.54 | J | 0.22 | 2.47 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Arsenic | 10.5 | | 0.19 | 0.99 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Barium | 23.6 | | 0.72 | 4.94 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Beryllium | 0.86 | | 0.025 | 0.30 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Calcium | 261 | | 11.0 | 98.8 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Chromium | 20.3 | | 0.046 | 0.49 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Cobalt | 2.91 | | 0.099 | 1.48 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Copper | 3.65 | | 0.22 | 0.99 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Iron | 24200 | | 3.94 | 4.94 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Lead | 16.6 | | 0.13 | 0.59 | mg/Kg |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2514 **Order ID:** Q2514

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

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| Q2514-04 | TP-96 | SOIL | Magnesium | 592 | | 11.9 | 98.8 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Manganese | 55.6 | | 0.14 | 0.99 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Mercury | 0.046 | | 0.0080 | 0.015 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Nickel | 6.27 | | 0.13 | 1.98 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Potassium | 423 | | 27.4 | 98.8 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Selenium | 6.74 | | 0.26 | 0.99 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Sodium | 225 | | 17.6 | 98.8 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Vanadium | 36.8 | | 0.25 | 1.98 | mg/Kg |
| Q2514-04 | TP-96 | SOIL | Zinc | 19.3 | | 0.11 | 1.98 | mg/Kg |
| **Client ID :** | **TP-97** | | | | | | | |
| Q2514-05 | TP-97 | SOIL | Aluminum | 10500 | | 0.81 | 4.80 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Antimony | 1.32 | J | 0.21 | 2.40 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Arsenic | 8.80 | | 0.18 | 0.96 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Barium | 28.6 | | 0.70 | 4.80 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Beryllium | 0.79 | | 0.024 | 0.29 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Calcium | 240 | | 10.7 | 96.0 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Chromium | 16.0 | | 0.045 | 0.48 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Cobalt | 3.42 | | 0.096 | 1.44 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Copper | 4.46 | | 0.21 | 0.96 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Iron | 22200 | | 3.83 | 4.80 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Lead | 14.1 | | 0.13 | 0.58 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Magnesium | 706 | | 11.5 | 96.0 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Manganese | 46.7 | | 0.13 | 0.96 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Mercury | 0.029 | | 0.0080 | 0.015 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Nickel | 6.81 | | 0.13 | 1.92 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Potassium | 406 | | 26.6 | 96.0 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Selenium | 6.10 | | 0.25 | 0.96 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Silver | 0.12 | J | 0.12 | 0.48 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Sodium | 595 | | 17.1 | 96.0 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Vanadium | 35.3 | | 0.24 | 1.92 | mg/Kg |
| Q2514-05 | TP-97 | SOIL | Zinc | 18.0 | | 0.11 | 1.92 | mg/Kg |
| **Client ID :** | **TP-103** | | | | | | | |
| Q2514-06 | TP-103 | SOIL | Aluminum | 10200 | | 0.89 | 5.30 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Antimony | 1.40 | J | 0.23 | 2.65 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Arsenic | 10.0 | | 0.20 | 1.06 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Barium | 23.9 | | 0.77 | 5.30 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Beryllium | 0.91 | | 0.027 | 0.32 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Cadmium | 0.029 | J | 0.025 | 0.32 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Calcium | 531 | | 11.8 | 106 | mg/Kg |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2514 **Order ID:** Q2514

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

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| Q2514-06 | TP-103 | SOIL | Chromium | 21.8 | | 0.050 | 0.53 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Cobalt | 3.97 | | 0.11 | 1.59 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Copper | 3.51 | | 0.23 | 1.06 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Iron | 26100 | | 4.23 | 5.30 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Lead | 11.9 | | 0.14 | 0.64 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Magnesium | 568 | | 12.7 | 106 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Manganese | 61.9 | | 0.15 | 1.06 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Mercury | 0.070 | | 0.0080 | 0.014 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Nickel | 6.65 | | 0.14 | 2.12 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Potassium | 282 | | 29.4 | 106 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Selenium | 6.81 | | 0.28 | 1.06 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Sodium | 288 | | 18.9 | 106 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Vanadium | 38.3 | | 0.27 | 2.12 | mg/Kg |
| Q2514-06 | TP-103 | SOIL | Zinc | 18.3 | | 0.12 | 2.12 | mg/Kg |
| **Client ID :** | **TP-36** | | | | | | | |
| Q2514-07 | TP-36 | SOIL | Aluminum | 8840 | | 0.79 | 4.67 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Antimony | 1.28 | J | 0.21 | 2.34 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Arsenic | 6.18 | | 0.18 | 0.94 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Barium | 9.64 | | 0.68 | 4.67 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Beryllium | 0.88 | | 0.023 | 0.28 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Cadmium | 0.052 | J | 0.022 | 0.28 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Calcium | 477 | | 10.4 | 93.5 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Chromium | 16.1 | | 0.044 | 0.47 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Cobalt | 1.87 | | 0.093 | 1.40 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Copper | 0.79 | J | 0.21 | 0.94 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Iron | 20600 | | 3.73 | 4.67 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Lead | 44.9 | | 0.12 | 0.56 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Magnesium | 378 | | 11.2 | 93.5 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Manganese | 14.6 | | 0.13 | 0.94 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Mercury | 0.019 | | 0.0080 | 0.015 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Nickel | 5.00 | | 0.12 | 1.87 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Potassium | 980 | | 25.9 | 93.5 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Selenium | 5.42 | | 0.24 | 0.94 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Sodium | 249 | | 16.6 | 93.5 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Vanadium | 40.8 | | 0.23 | 1.87 | mg/Kg |
| Q2514-07 | TP-36 | SOIL | Zinc | 16.7 | | 0.10 | 1.87 | mg/Kg |
| **Client ID :** | **TP-78** | | | | | | | |
| Q2514-08 | TP-78 | SOIL | Aluminum | 6500 | | 0.80 | 4.79 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Antimony | 1.41 | J | 0.21 | 2.39 | mg/Kg |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2514 **Order ID:** Q2514

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

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| Q2514-08 | TP-78 | SOIL | Arsenic | 8.20 | | 0.18 | 0.96 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Barium | 14.0 | | 0.70 | 4.79 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Beryllium | 0.67 | | 0.024 | 0.29 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Calcium | 137 | | 10.6 | 95.8 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Chromium | 16.6 | | 0.045 | 0.48 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Cobalt | 1.74 | | 0.096 | 1.44 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Copper | 2.21 | | 0.21 | 0.96 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Iron | 24500 | | 3.82 | 4.79 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Lead | 8.24 | | 0.12 | 0.57 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Magnesium | 489 | | 11.5 | 95.8 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Manganese | 37.9 | | 0.13 | 0.96 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Mercury | 0.030 | | 0.0080 | 0.015 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Nickel | 4.32 | | 0.12 | 1.92 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Potassium | 640 | | 26.5 | 95.8 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Selenium | 6.57 | | 0.25 | 0.96 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Silver | 0.12 | J | 0.12 | 0.48 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Sodium | 154 | | 17.0 | 95.8 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Vanadium | 41.8 | | 0.24 | 1.92 | mg/Kg |
| Q2514-08 | TP-78 | SOIL | Zinc | 15.7 | | 0.11 | 1.92 | mg/Kg |
| **Client ID : TP-81** | | | | | | | | |
| Q2514-09 | TP-81 | SOIL | Aluminum | 7770 | | 0.90 | 5.34 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Antimony | 1.06 | J | 0.24 | 2.67 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Arsenic | 7.35 | | 0.20 | 1.07 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Barium | 30.4 | | 0.78 | 5.34 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Beryllium | 0.70 | | 0.027 | 0.32 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Cadmium | 0.044 | J | 0.026 | 0.32 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Calcium | 579 | | 11.9 | 107 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Chromium | 14.9 | | 0.050 | 0.53 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Cobalt | 4.09 | | 0.11 | 1.60 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Copper | 2.79 | | 0.24 | 1.07 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Iron | 18000 | | 4.26 | 5.34 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Lead | 11.4 | | 0.14 | 0.64 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Magnesium | 649 | | 12.8 | 107 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Manganese | 74.2 | | 0.15 | 1.07 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Mercury | 0.035 | | 0.0090 | 0.016 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Nickel | 6.57 | | 0.14 | 2.14 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Potassium | 315 | | 29.6 | 107 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Selenium | 5.01 | | 0.28 | 1.07 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Silver | 0.20 | J | 0.13 | 0.53 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Sodium | 137 | | 19.0 | 107 | mg/Kg |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2514 **Order ID:** Q2514

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

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| Q2514-09 | TP-81 | SOIL | Vanadium | 27.2 | | 0.27 | 2.14 | mg/Kg |
| Q2514-09 | TP-81 | SOIL | Zinc | 17.1 | | 0.12 | 2.14 | mg/Kg |
| **Client ID : TP-90** | | | | | | | | |
| Q2514-10 | TP-90 | SOIL | Aluminum | 4530 | | 0.83 | 4.94 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Antimony | 1.58 | J | 0.22 | 2.47 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Arsenic | 2.83 | | 0.19 | 0.99 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Barium | 9.66 | | 0.72 | 4.94 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Beryllium | 0.28 | J | 0.025 | 0.30 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Calcium | 2560 | | 11.0 | 98.8 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Chromium | 7.24 | | 0.046 | 0.49 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Cobalt | 7.80 | | 0.099 | 1.48 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Copper | 37.9 | | 0.22 | 0.99 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Iron | 12900 | | 3.94 | 4.94 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Lead | 5.60 | | 0.13 | 0.59 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Magnesium | 3870 | | 11.9 | 98.8 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Manganese | 108 | | 0.14 | 0.99 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Mercury | 0.021 | | 0.0080 | 0.014 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Nickel | 16.4 | | 0.13 | 1.98 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Potassium | 155 | | 27.4 | 98.8 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Selenium | 2.86 | | 0.26 | 0.99 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Silver | 0.20 | J | 0.12 | 0.49 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Sodium | 682 | | 17.6 | 98.8 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Vanadium | 24.8 | | 0.25 | 1.98 | mg/Kg |
| Q2514-10 | TP-90 | SOIL | Zinc | 15.5 | | 0.11 | 1.98 | mg/Kg |

# SAMPLE DATA

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-92 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-01 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 87.4 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 8400 | | 1 | 0.84 | 5.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 1.32 | JN | 1 | 0.22 | 2.50 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 6.73 | | 1 | 0.19 | 1.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-39-3 | Barium | 53.0 | | 1 | 0.73 | 5.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.79 | N | 1 | 0.025 | 0.30 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.024 | U | 1 | 0.024 | 0.30 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 180 | | 1 | 11.1 | 99.9 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 11.4 | | 1 | 0.047 | 0.50 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 2.27 | N | 1 | 0.10 | 1.50 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-50-8 | Copper | 1.26 | N | 1 | 0.22 | 1.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7439-89-6 | Iron | 23500 | | 1 | 3.99 | 5.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7439-92-1 | Lead | 11.9 | * | 1 | 0.13 | 0.60 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 353 | | 1 | 12.0 | 99.9 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 38.3 | * | 1 | 0.14 | 1.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.021 | | 1 | 0.0080 | 0.014 | mg/Kg | 07/15/25 15:40 | 07/16/25 13:47 | 7471B | |
| 7440-02-0 | Nickel | 4.82 | | 1 | 0.13 | 2.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 409 | | 1 | 27.7 | 99.9 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 6.28 | N | 1 | 0.26 | 1.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.19 | JN | 1 | 0.12 | 0.50 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 364 | N | 1 | 17.8 | 99.9 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.23 | U | 1 | 0.23 | 2.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 22.9 | N* | 1 | 0.25 | 2.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 21.7 | | 1 | 0.11 | 2.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:34 | 6010D | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Yellow | Clarity After: | | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-93 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-02 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 87.7 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 7940 | | 1 | 0.84 | 5.02 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 1.62 | JN | 1 | 0.22 | 2.51 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 10.3 | | 1 | 0.19 | 1.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-39-3 | Barium | 17.1 | | 1 | 0.73 | 5.02 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.82 | N | 1 | 0.025 | 0.30 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.024 | U | 1 | 0.024 | 0.30 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 383 | | 1 | 11.2 | 100 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 22.5 | | 1 | 0.047 | 0.50 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 2.51 | N | 1 | 0.10 | 1.51 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-50-8 | Copper | 4.12 | N | 1 | 0.22 | 1.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7439-89-6 | Iron | 25400 | | 1 | 4.01 | 5.02 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7439-92-1 | Lead | 11.0 | * | 1 | 0.13 | 0.60 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 388 | | 1 | 12.1 | 100 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 44.0 | * | 1 | 0.14 | 1.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.022 | | 1 | 0.0080 | 0.014 | mg/Kg | 07/15/25 15:40 | 07/16/25 13:49 | 7471B | |
| 7440-02-0 | Nickel | 5.06 | | 1 | 0.13 | 2.01 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 337 | | 1 | 27.8 | 100 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 6.69 | N | 1 | 0.26 | 1.00 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.17 | JN | 1 | 0.12 | 0.50 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 707 | N | 1 | 17.9 | 100 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.23 | U | 1 | 0.23 | 2.01 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 40.1 | N* | 1 | 0.25 | 2.01 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 16.5 | | 1 | 0.11 | 2.01 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:39 | 6010D | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Yellow | Clarity After: | | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-94 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-03 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 88.1 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 9340 | | 1 | 0.81 | 4.79 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 1.43 | JN | 1 | 0.21 | 2.39 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 9.25 | | 1 | 0.18 | 0.96 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-39-3 | Barium | 22.9 | | 1 | 0.70 | 4.79 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.80 | N | 1 | 0.024 | 0.29 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.023 | U | 1 | 0.023 | 0.29 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 120 | | 1 | 10.6 | 95.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 17.2 | | 1 | 0.045 | 0.48 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 3.41 | N | 1 | 0.096 | 1.44 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-50-8 | Copper | 4.08 | N | 1 | 0.21 | 0.96 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7439-89-6 | Iron | 23700 | | 1 | 3.82 | 4.79 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7439-92-1 | Lead | 15.5 | * | 1 | 0.13 | 0.57 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 686 | | 1 | 11.5 | 95.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 51.5 | * | 1 | 0.13 | 0.96 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.036 | | 1 | 0.0080 | 0.014 | mg/Kg | 07/15/25 15:40 | 07/16/25 13:51 | 7471B | |
| 7440-02-0 | Nickel | 6.62 | | 1 | 0.13 | 1.92 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 373 | | 1 | 26.5 | 95.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 6.45 | N | 1 | 0.25 | 0.96 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.12 | UN | 1 | 0.12 | 0.48 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 245 | N | 1 | 17.1 | 95.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.22 | U | 1 | 0.22 | 1.92 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 35.4 | N* | 1 | 0.24 | 1.92 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 19.0 | | 1 | 0.11 | 1.92 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:43 | 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,
Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-96 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-04 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 85.8 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 11000 | | 1 | 0.83 | 4.94 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 1.54 | JN | 1 | 0.22 | 2.47 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 10.5 | | 1 | 0.19 | 0.99 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-39-3 | Barium | 23.6 | | 1 | 0.72 | 4.94 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.86 | N | 1 | 0.025 | 0.30 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.024 | U | 1 | 0.024 | 0.30 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 261 | | 1 | 11.0 | 98.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 20.3 | | 1 | 0.046 | 0.49 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 2.91 | N | 1 | 0.099 | 1.48 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-50-8 | Copper | 3.65 | N | 1 | 0.22 | 0.99 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7439-89-6 | Iron | 24200 | | 1 | 3.94 | 4.94 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7439-92-1 | Lead | 16.6 | * | 1 | 0.13 | 0.59 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 592 | | 1 | 11.9 | 98.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 55.6 | * | 1 | 0.14 | 0.99 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.046 | | 1 | 0.0080 | 0.015 | mg/Kg | 07/15/25 15:40 | 07/16/25 13:54 | 7471B | |
| 7440-02-0 | Nickel | 6.27 | | 1 | 0.13 | 1.98 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 423 | | 1 | 27.4 | 98.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 6.74 | N | 1 | 0.26 | 0.99 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.12 | UN | 1 | 0.12 | 0.49 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 225 | N | 1 | 17.6 | 98.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.23 | U | 1 | 0.23 | 1.98 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 36.8 | N* | 1 | 0.25 | 1.98 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 19.3 | | 1 | 0.11 | 1.98 | mg/Kg | 07/07/25 10:05 | 07/09/25 19:56 | 6010D | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Yellow | Clarity After: | | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
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Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-97 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-05 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 85 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 10500 | | 1 | 0.81 | 4.80 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 1.32 | JN | 1 | 0.21 | 2.40 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 8.80 | | 1 | 0.18 | 0.96 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-39-3 | Barium | 28.6 | | 1 | 0.70 | 4.80 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.79 | N | 1 | 0.024 | 0.29 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.023 | U | 1 | 0.023 | 0.29 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 240 | | 1 | 10.7 | 96.0 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 16.0 | | 1 | 0.045 | 0.48 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 3.42 | N | 1 | 0.096 | 1.44 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-50-8 | Copper | 4.46 | N | 1 | 0.21 | 0.96 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7439-89-6 | Iron | 22200 | | 1 | 3.83 | 4.80 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7439-92-1 | Lead | 14.1 | * | 1 | 0.13 | 0.58 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 706 | | 1 | 11.5 | 96.0 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 46.7 | * | 1 | 0.13 | 0.96 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.029 | | 1 | 0.0080 | 0.015 | mg/Kg | 07/15/25 15:40 | 07/16/25 13:56 | 7471B | |
| 7440-02-0 | Nickel | 6.81 | | 1 | 0.13 | 1.92 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 406 | | 1 | 26.6 | 96.0 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 6.10 | N | 1 | 0.25 | 0.96 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.12 | JN | 1 | 0.12 | 0.48 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 595 | N | 1 | 17.1 | 96.0 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.22 | U | 1 | 0.22 | 1.92 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 35.3 | N* | 1 | 0.24 | 1.92 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 18.0 | | 1 | 0.11 | 1.92 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:01 | 6010D | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Yellow | Clarity After: | | Artifacts: | |
| Comments: | METALS-TAL | | | | |

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MDL = Method Detection Limit
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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: | 07/02/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-103 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-06 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 86.5 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 10200 | | 1 | 0.89 | 5.30 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 1.40 | JN | 1 | 0.23 | 2.65 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 10.0 | | 1 | 0.20 | 1.06 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-39-3 | Barium | 23.9 | | 1 | 0.77 | 5.30 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.91 | N | 1 | 0.027 | 0.32 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.029 | J | 1 | 0.025 | 0.32 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 531 | | 1 | 11.8 | 106 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 21.8 | | 1 | 0.050 | 0.53 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 3.97 | N | 1 | 0.11 | 1.59 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-50-8 | Copper | 3.51 | N | 1 | 0.23 | 1.06 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7439-89-6 | Iron | 26100 | | 1 | 4.23 | 5.30 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7439-92-1 | Lead | 11.9 | * | 1 | 0.14 | 0.64 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 568 | | 1 | 12.7 | 106 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 61.9 | * | 1 | 0.15 | 1.06 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.070 | | 1 | 0.0080 | 0.014 | mg/Kg | 07/15/25 15:40 | 07/16/25 13:58 | 7471B | |
| 7440-02-0 | Nickel | 6.65 | | 1 | 0.14 | 2.12 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 282 | | 1 | 29.4 | 106 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 6.81 | N | 1 | 0.28 | 1.06 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.13 | UN | 1 | 0.13 | 0.53 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 288 | N | 1 | 18.9 | 106 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.24 | U | 1 | 0.24 | 2.12 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 38.3 | N* | 1 | 0.27 | 2.12 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 18.3 | | 1 | 0.12 | 2.12 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:05 | 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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N =Spiked sample recovery not within control limits

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



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-36 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-07 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 90.3 |

| 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 | 0.79 | 4.67 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 1.28 | JN | 1 | 0.21 | 2.34 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 6.18 | | 1 | 0.18 | 0.94 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-39-3 | Barium | 9.64 | | 1 | 0.68 | 4.67 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.88 | N | 1 | 0.023 | 0.28 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.052 | J | 1 | 0.022 | 0.28 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 477 | | 1 | 10.4 | 93.5 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 16.1 | | 1 | 0.044 | 0.47 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 1.87 | N | 1 | 0.093 | 1.40 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-50-8 | Copper | 0.79 | JN | 1 | 0.21 | 0.94 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7439-89-6 | Iron | 20600 | | 1 | 3.73 | 4.67 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7439-92-1 | Lead | 44.9 | * | 1 | 0.12 | 0.56 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 378 | | 1 | 11.2 | 93.5 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 14.6 | * | 1 | 0.13 | 0.94 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.019 | | 1 | 0.0080 | 0.015 | mg/Kg | 07/15/25 15:40 | 07/16/25 14:01 | 7471B | |
| 7440-02-0 | Nickel | 5.00 | | 1 | 0.12 | 1.87 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 980 | | 1 | 25.9 | 93.5 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 5.42 | N | 1 | 0.24 | 0.94 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.11 | UN | 1 | 0.11 | 0.47 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 249 | N | 1 | 16.6 | 93.5 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.22 | U | 1 | 0.22 | 1.87 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 40.8 | N* | 1 | 0.23 | 1.87 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 16.7 | | 1 | 0.10 | 1.87 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:10 | 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
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J = Estimated Value
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* = indicates the duplicate analysis is not within control limits.
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-78 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-08 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 86.3 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6500 | | 1 | 0.80 | 4.79 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 1.41 | JN | 1 | 0.21 | 2.39 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 8.20 | | 1 | 0.18 | 0.96 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-39-3 | Barium | 14.0 | | 1 | 0.70 | 4.79 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.67 | N | 1 | 0.024 | 0.29 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.023 | U | 1 | 0.023 | 0.29 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 137 | | 1 | 10.6 | 95.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 16.6 | | 1 | 0.045 | 0.48 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 1.74 | N | 1 | 0.096 | 1.44 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-50-8 | Copper | 2.21 | N | 1 | 0.21 | 0.96 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7439-89-6 | Iron | 24500 | | 1 | 3.82 | 4.79 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7439-92-1 | Lead | 8.24 | * | 1 | 0.12 | 0.57 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 489 | | 1 | 11.5 | 95.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 37.9 | * | 1 | 0.13 | 0.96 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.030 | | 1 | 0.0080 | 0.015 | mg/Kg | 07/15/25 15:40 | 07/16/25 14:03 | 7471B | |
| 7440-02-0 | Nickel | 4.32 | | 1 | 0.12 | 1.92 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 640 | | 1 | 26.5 | 95.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 6.57 | N | 1 | 0.25 | 0.96 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.12 | JN | 1 | 0.12 | 0.48 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 154 | N | 1 | 17.0 | 95.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.22 | U | 1 | 0.22 | 1.92 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 41.8 | N* | 1 | 0.24 | 1.92 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 15.7 | | 1 | 0.11 | 1.92 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:14 | 6010D | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Yellow | Clarity After: | | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922



# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-81 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-09 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 86.3 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 7770 | | 1 | 0.90 | 5.34 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 1.06 | JN | 1 | 0.24 | 2.67 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 7.35 | | 1 | 0.20 | 1.07 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-39-3 | Barium | 30.4 | | 1 | 0.78 | 5.34 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.70 | N | 1 | 0.027 | 0.32 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.044 | J | 1 | 0.026 | 0.32 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 579 | | 1 | 11.9 | 107 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 14.9 | | 1 | 0.050 | 0.53 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 4.09 | N | 1 | 0.11 | 1.60 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-50-8 | Copper | 2.79 | N | 1 | 0.24 | 1.07 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7439-89-6 | Iron | 18000 | | 1 | 4.26 | 5.34 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7439-92-1 | Lead | 11.4 | * | 1 | 0.14 | 0.64 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 649 | | 1 | 12.8 | 107 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 74.2 | * | 1 | 0.15 | 1.07 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.035 | | 1 | 0.0090 | 0.016 | mg/Kg | 07/15/25 15:40 | 07/16/25 14:05 | 7471B | |
| 7440-02-0 | Nickel | 6.57 | | 1 | 0.14 | 2.14 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 315 | | 1 | 29.6 | 107 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 5.01 | N | 1 | 0.28 | 1.07 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.20 | JN | 1 | 0.13 | 0.53 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 137 | N | 1 | 19.0 | 107 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.25 | U | 1 | 0.25 | 2.14 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 27.2 | N* | 1 | 0.27 | 2.14 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 17.1 | | 1 | 0.12 | 2.14 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:19 | 6010D | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Yellow | Clarity After: | | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | CDM Smith | Date Collected: | 07/03/25 |
| Project: | South River WM Replacement | Date Received: | 07/03/25 |
| Client Sample ID: | TP-90 | SDG No.: | Q2514 |
| Lab Sample ID: | Q2514-10 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 91.6 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4530 | | 1 | 0.83 | 4.94 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-36-0 | Antimony | 1.58 | JN | 1 | 0.22 | 2.47 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-38-2 | Arsenic | 2.83 | | 1 | 0.19 | 0.99 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-39-3 | Barium | 9.66 | | 1 | 0.72 | 4.94 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-41-7 | Beryllium | 0.28 | JN | 1 | 0.025 | 0.30 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-43-9 | Cadmium | 0.024 | U | 1 | 0.024 | 0.30 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-70-2 | Calcium | 2560 | | 1 | 11.0 | 98.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-47-3 | Chromium | 7.24 | | 1 | 0.046 | 0.49 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-48-4 | Cobalt | 7.80 | N | 1 | 0.099 | 1.48 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-50-8 | Copper | 37.9 | N | 1 | 0.22 | 0.99 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7439-89-6 | Iron | 12900 | | 1 | 3.94 | 4.94 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7439-92-1 | Lead | 5.60 | * | 1 | 0.13 | 0.59 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7439-95-4 | Magnesium | 3870 | | 1 | 11.9 | 98.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7439-96-5 | Manganese | 108 | * | 1 | 0.14 | 0.99 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7439-97-6 | Mercury | 0.021 | | 1 | 0.0080 | 0.014 | mg/Kg | 07/15/25 15:40 | 07/16/25 14:12 | 7471B | |
| 7440-02-0 | Nickel | 16.4 | | 1 | 0.13 | 1.98 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-09-7 | Potassium | 155 | | 1 | 27.4 | 98.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7782-49-2 | Selenium | 2.86 | N | 1 | 0.26 | 0.99 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-22-4 | Silver | 0.20 | JN | 1 | 0.12 | 0.49 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-23-5 | Sodium | 682 | N | 1 | 17.6 | 98.8 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-28-0 | Thallium | 0.23 | U | 1 | 0.23 | 1.98 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-62-2 | Vanadium | 24.8 | N* | 1 | 0.25 | 1.98 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 6010D | SW3050 |
| 7440-66-6 | Zinc | 15.5 | | 1 | 0.11 | 1.98 | mg/Kg | 07/07/25 10:05 | 07/09/25 20:23 | 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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J = Estimated Value
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* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

# METAL CALIBRATION DATA

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV29 | Mercury | 4.07 | 4.0 | 102 | 90 - 110 | CV | 07/16/2025 | 11:56 | LB136499 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV09 | Mercury | 5.31 | 5.0 | 106 | 90 - 110 | CV | 07/16/2025 | 12:01 | LB136499 |
| CCV10 | Mercury | 5.27 | 5.0 | 105 | 90 - 110 | CV | 07/16/2025 | 12:38 | LB136499 |
| CCV11 | Mercury | 5.28 | 5.0 | 106 | 90 - 110 | CV | 07/16/2025 | 13:12 | LB136499 |
| CCV12 | Mercury | 5.09 | 5.0 | 102 | 90 - 110 | CV | 07/16/2025 | 13:40 | LB136499 |
| CCV13 | Mercury | 5.13 | 5.0 | 103 | 90 - 110 | CV | 07/16/2025 | 14:07 | LB136499 |
| CCV14 | Mercury | 5.04 | 5.0 | 101 | 90 - 110 | CV | 07/16/2025 | 14:25 | LB136499 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Aluminum | 7590 | 8000 | 95 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Antimony | 3910 | 4000 | 98 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Arsenic | 3660 | 4000 | 92 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Barium | 7770 | 8000 | 97 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Beryllium | 194 | 200 | 97 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Cadmium | 1860 | 2000 | 93 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Calcium | 19100 | 20000 | 95 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Chromium | 784 | 800 | 98 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Cobalt | 1910 | 2000 | 96 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Copper | 1000 | 1000 | 100 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Iron | 3730 | 4000 | 93 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Lead | 3700 | 4000 | 92 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Magnesium | 19100 | 20000 | 95 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Manganese | 1920 | 2000 | 96 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Nickel | 1890 | 2000 | 94 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Potassium | 18500 | 20000 | 93 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Selenium | 3760 | 4000 | 94 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Silver | 1000 | 1000 | 100 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Sodium | 19300 | 20000 | 96 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Thallium | 3680 | 4000 | 92 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Vanadium | 1940 | 2000 | 97 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |
| | Zinc | 1950 | 2000 | 97 | 90 - 110 | P | 07/09/2025 | 10:05 | LB136407 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Aluminum | 96.1 | 100 | 96 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Antimony | 49.5 | 50.0 | 99 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Arsenic | 20.8 | 20.0 | 104 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Barium | 101 | 100 | 101 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Beryllium | 6.07 | 6.0 | 101 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Cadmium | 5.40 | 6.0 | 90 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Calcium | 1940 | 2000 | 97 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Chromium | 10.3 | 10.0 | 103 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Cobalt | 28.4 | 30.0 | 95 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Copper | 22.7 | 20.0 | 114 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Iron | 117 | 100 | 117 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Lead | 11.2 | 12.0 | 94 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Magnesium | 2100 | 2000 | 105 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Manganese | 23.0 | 20.0 | 115 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Nickel | 37.8 | 40.0 | 95 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Potassium | 1760 | 2000 | 88 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Selenium | 21.3 | 20.0 | 107 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Silver | 9.46 | 10.0 | 95 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Sodium | 1770 | 2000 | 88 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Thallium | 37.7 | 40.0 | 94 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Vanadium | 37.7 | 40.0 | 94 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |
| | Zinc | 42.1 | 40.0 | 105 | 80 - 120 | P | 07/09/2025 | 10:17 | LB136407 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Aluminum | 10300 | 10000 | 102 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Antimony | 5070 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Arsenic | 4990 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Barium | 10700 | 10000 | 107 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Beryllium | 259 | 250 | 104 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Cadmium | 2520 | 2500 | 101 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Calcium | 25400 | 25000 | 102 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Cobalt | 2480 | 2500 | 99 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Copper | 1290 | 1250 | 104 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Iron | 5010 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Lead | 5040 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Magnesium | 24700 | 25000 | 99 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Manganese | 2620 | 2500 | 105 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Nickel | 2470 | 2500 | 99 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Potassium | 25800 | 25000 | 103 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Selenium | 5080 | 5000 | 102 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Sodium | 26500 | 25000 | 106 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Thallium | 5100 | 5000 | 102 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Vanadium | 2630 | 2500 | 105 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| | Zinc | 2630 | 2500 | 105 | 90 - 110 | P | 07/09/2025 | 10:48 | LB136407 |
| CCV02 | Aluminum | 9890 | 10000 | 99 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Antimony | 5010 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Arsenic | 4800 | 5000 | 96 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Barium | 10700 | 10000 | 107 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Beryllium | 254 | 250 | 102 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Cadmium | 2430 | 2500 | 97 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Calcium | 25200 | 25000 | 101 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Chromium | 997 | 1000 | 100 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Cobalt | 2400 | 2500 | 96 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Copper | 1260 | 1250 | 101 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Iron | 4860 | 5000 | 97 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Lead | 4860 | 5000 | 97 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |

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Fax : 908 789 8922



# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV02 | Magnesium | 24200 | 25000 | 97 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Manganese | 2580 | 2500 | 103 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Nickel | 2400 | 2500 | 96 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Potassium | 24100 | 25000 | 96 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Selenium | 4960 | 5000 | 99 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Sodium | 24500 | 25000 | 98 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Thallium | 4990 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Vanadium | 2600 | 2500 | 104 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| | Zinc | 2590 | 2500 | 104 | 90 - 110 | P | 07/09/2025 | 11:47 | LB136407 |
| CCV03 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Antimony | 5020 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Arsenic | 4830 | 5000 | 96 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Barium | 10800 | 10000 | 108 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Beryllium | 257 | 250 | 103 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Cadmium | 2440 | 2500 | 98 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Calcium | 25500 | 25000 | 102 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Cobalt | 2410 | 2500 | 97 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Iron | 4930 | 5000 | 99 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Lead | 4890 | 5000 | 98 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Magnesium | 24500 | 25000 | 98 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Manganese | 2590 | 2500 | 103 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Nickel | 2410 | 2500 | 96 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Potassium | 24700 | 25000 | 99 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Selenium | 5010 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Sodium | 25000 | 25000 | 100 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Thallium | 5030 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Vanadium | 2590 | 2500 | 104 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| | Zinc | 2600 | 2500 | 104 | 90 - 110 | P | 07/09/2025 | 12:54 | LB136407 |
| CCV04 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Antimony | 5010 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV04 | Arsenic | 4860 | 5000 | 97 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Barium | 10700 | 10000 | 107 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Beryllium | 259 | 250 | 104 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Cadmium | 2460 | 2500 | 98 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Calcium | 25700 | 25000 | 103 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Cobalt | 2410 | 2500 | 96 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Iron | 5000 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Lead | 4930 | 5000 | 99 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Magnesium | 24500 | 25000 | 98 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Manganese | 2590 | 2500 | 104 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Nickel | 2420 | 2500 | 97 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Potassium | 25300 | 25000 | 101 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Selenium | 5050 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Sodium | 25800 | 25000 | 103 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Thallium | 5080 | 5000 | 102 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Vanadium | 2580 | 2500 | 103 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| | Zinc | 2580 | 2500 | 103 | 90 - 110 | P | 07/09/2025 | 14:05 | LB136407 |
| CCV05 | Aluminum | 10200 | 10000 | 102 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Antimony | 5170 | 5000 | 103 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Arsenic | 5070 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Barium | 10800 | 10000 | 108 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Beryllium | 272 | 250 | 109 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Cadmium | 2560 | 2500 | 103 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Calcium | 26100 | 25000 | 104 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Cobalt | 2500 | 2500 | 100 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Copper | 1340 | 1250 | 107 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Iron | 5360 | 5000 | 107 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Lead | 5130 | 5000 | 103 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Magnesium | 25100 | 25000 | 100 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Manganese | 2600 | 2500 | 104 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Nickel | 2510 | 2500 | 100 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Potassium | 26800 | 25000 | 107 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Selenium | 5260 | 5000 | 105 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Silver | 1280 | 1250 | 102 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Sodium | 27100 | 25000 | 108 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Thallium | 5270 | 5000 | 106 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Vanadium | 2600 | 2500 | 104 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| | Zinc | 2620 | 2500 | 105 | 90 - 110 | P | 07/09/2025 | 15:27 | LB136407 |
| CCV06 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Antimony | 5040 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Arsenic | 4880 | 5000 | 98 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Barium | 10600 | 10000 | 106 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Beryllium | 260 | 250 | 104 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Cadmium | 2470 | 2500 | 99 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Calcium | 25600 | 25000 | 102 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Cobalt | 2430 | 2500 | 97 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Copper | 1280 | 1250 | 103 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Iron | 5080 | 5000 | 102 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Lead | 4940 | 5000 | 99 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Magnesium | 24700 | 25000 | 99 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Manganese | 2580 | 2500 | 103 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Nickel | 2430 | 2500 | 97 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Potassium | 25300 | 25000 | 101 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Selenium | 5090 | 5000 | 102 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Sodium | 25300 | 25000 | 101 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Thallium | 5110 | 5000 | 102 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Vanadium | 2570 | 2500 | 103 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| | Zinc | 2560 | 2500 | 102 | 90 - 110 | P | 07/09/2025 | 16:39 | LB136407 |
| CCV07 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Antimony | 4980 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Arsenic | 4770 | 5000 | 95 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Barium | 10500 | 10000 | 105 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV07 | Beryllium | 258 | 250 | 103 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Cadmium | 2420 | 2500 | 97 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Calcium | 25500 | 25000 | 102 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Chromium | 982 | 1000 | 98 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Cobalt | 2380 | 2500 | 95 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Iron | 5070 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Lead | 4830 | 5000 | 97 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Magnesium | 24700 | 25000 | 99 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Manganese | 2570 | 2500 | 103 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Nickel | 2390 | 2500 | 96 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Potassium | 23900 | 25000 | 96 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Selenium | 5010 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Sodium | 24000 | 25000 | 96 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Thallium | 5040 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Vanadium | 2540 | 2500 | 102 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| | Zinc | 2520 | 2500 | 101 | 90 - 110 | P | 07/09/2025 | 17:50 | LB136407 |
| CCV08 | Aluminum | 9890 | 10000 | 99 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Antimony | 4930 | 5000 | 99 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Arsenic | 4700 | 5000 | 94 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Barium | 10400 | 10000 | 104 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Beryllium | 255 | 250 | 102 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Cadmium | 2400 | 2500 | 96 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Calcium | 25100 | 25000 | 100 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Chromium | 966 | 1000 | 97 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Cobalt | 2340 | 2500 | 94 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Iron | 5020 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Lead | 4780 | 5000 | 96 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Magnesium | 24300 | 25000 | 97 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Manganese | 2520 | 2500 | 101 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Nickel | 2370 | 2500 | 95 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Potassium | 23500 | 25000 | 94 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV08 | Selenium | 4970 | 5000 | 99 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Silver | 1220 | 1250 | 98 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Sodium | 23600 | 25000 | 94 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Thallium | 5010 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Vanadium | 2510 | 2500 | 101 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| | Zinc | 2490 | 2500 | 100 | 90 - 110 | P | 07/09/2025 | 18:54 | LB136407 |
| CCV09 | Aluminum | 9970 | 10000 | 100 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Antimony | 5030 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Arsenic | 4800 | 5000 | 96 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Barium | 10400 | 10000 | 104 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Beryllium | 255 | 250 | 102 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Cadmium | 2450 | 2500 | 98 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Calcium | 25400 | 25000 | 102 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Chromium | 983 | 1000 | 98 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Cobalt | 2390 | 2500 | 96 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Copper | 1260 | 1250 | 101 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Iron | 5050 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Lead | 4870 | 5000 | 97 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Magnesium | 24400 | 25000 | 98 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Manganese | 2550 | 2500 | 102 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Nickel | 2410 | 2500 | 97 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Potassium | 23800 | 25000 | 95 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Selenium | 5080 | 5000 | 102 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Sodium | 23700 | 25000 | 95 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Thallium | 5120 | 5000 | 102 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Vanadium | 2540 | 2500 | 102 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| | Zinc | 2540 | 2500 | 101 | 90 - 110 | P | 07/09/2025 | 19:48 | LB136407 |
| CCV10 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Antimony | 5140 | 5000 | 103 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Arsenic | 4910 | 5000 | 98 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Barium | 10600 | 10000 | 106 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Beryllium | 260 | 250 | 104 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Cadmium | 2510 | 2500 | 100 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |

Alliance TECHNICAL GROUP
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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV10 | Calcium | 25900 | 25000 | 103 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Chromium | 1010 | 1000 | 101 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Cobalt | 2440 | 2500 | 98 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Iron | 5110 | 5000 | 102 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Lead | 4990 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Magnesium | 24800 | 25000 | 99 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Manganese | 2610 | 2500 | 104 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Nickel | 2470 | 2500 | 99 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Potassium | 24600 | 25000 | 98 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Selenium | 5200 | 5000 | 104 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Silver | 1270 | 1250 | 102 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Sodium | 24200 | 25000 | 97 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Thallium | 5230 | 5000 | 105 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Vanadium | 2590 | 2500 | 104 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| | Zinc | 2610 | 2500 | 104 | 90 - 110 | P | 07/09/2025 | 20:41 | LB136407 |
| CCV11 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Antimony | 4990 | 5000 | 100 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Arsenic | 4740 | 5000 | 95 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Barium | 10400 | 10000 | 104 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Beryllium | 257 | 250 | 103 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Cadmium | 2420 | 2500 | 97 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Calcium | 25300 | 25000 | 101 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Chromium | 975 | 1000 | 98 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Cobalt | 2360 | 2500 | 95 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Copper | 1260 | 1250 | 101 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Iron | 5070 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Lead | 4820 | 5000 | 96 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Magnesium | 24400 | 25000 | 98 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Manganese | 2560 | 2500 | 102 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Nickel | 2390 | 2500 | 96 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Potassium | 23900 | 25000 | 96 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Selenium | 5050 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV11 | Sodium | 23800 | 25000 | 95 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Thallium | 5060 | 5000 | 101 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Vanadium | 2550 | 2500 | 102 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |
| | Zinc | 2540 | 2500 | 102 | 90 - 110 | P | 07/09/2025 | 21:12 | LB136407 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Aluminum | 7800 | 8000 | 98 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Antimony | 4020 | 4000 | 100 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Arsenic | 3950 | 4000 | 99 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Barium | 7860 | 8000 | 98 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Beryllium | 209 | 200 | 105 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Cadmium | 2050 | 2000 | 103 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Calcium | 19800 | 20000 | 99 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Chromium | 800 | 800 | 100 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Cobalt | 1910 | 2000 | 96 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Copper | 1040 | 1000 | 104 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Iron | 4100 | 4000 | 103 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Lead | 4060 | 4000 | 101 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Magnesium | 20300 | 20000 | 102 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Manganese | 1980 | 2000 | 99 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Nickel | 1990 | 2000 | 99 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Potassium | 18600 | 20000 | 93 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Selenium | 4190 | 4000 | 105 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Silver | 911 | 1000 | 91 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Sodium | 19200 | 20000 | 96 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Thallium | 4110 | 4000 | 103 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Vanadium | 2000 | 2000 | 100 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |
| | Zinc | 1990 | 2000 | 100 | 90 - 110 | P | 07/10/2025 | 18:39 | LB136434 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Aluminum | 97.2 | 100 | 97 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Antimony | 54.4 | 50.0 | 109 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Arsenic | 21.2 | 20.0 | 106 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Barium | 98.6 | 100 | 99 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Beryllium | 6.44 | 6.0 | 107 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Cadmium | 5.61 | 6.0 | 93 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Calcium | 2140 | 2000 | 107 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Chromium | 10.5 | 10.0 | 105 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Cobalt | 29.4 | 30.0 | 98 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Copper | 21.6 | 20.0 | 108 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Iron | 118 | 100 | 118 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Lead | 13.2 | 12.0 | 110 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Magnesium | 2260 | 2000 | 113 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Manganese | 22.9 | 20.0 | 114 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Nickel | 39.6 | 40.0 | 99 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Potassium | 1810 | 2000 | 91 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Selenium | 20.6 | 20.0 | 103 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Silver | 10.9 | 10.0 | 110 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Sodium | 1810 | 2000 | 90 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Thallium | 40.2 | 40.0 | 100 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Vanadium | 38.1 | 40.0 | 95 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |
| | Zinc | 46.1 | 40.0 | 115 | 80 - 120 | P | 07/10/2025 | 18:51 | LB136434 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Aluminum | 9940 | 10000 | 99 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Antimony | 5010 | 5000 | 100 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Arsenic | 4910 | 5000 | 98 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Barium | 10200 | 10000 | 102 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Beryllium | 257 | 250 | 103 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Cadmium | 2510 | 2500 | 100 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Calcium | 25500 | 25000 | 102 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Chromium | 1010 | 1000 | 101 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Cobalt | 2470 | 2500 | 99 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Iron | 5140 | 5000 | 103 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Lead | 4980 | 5000 | 100 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Magnesium | 25400 | 25000 | 102 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Manganese | 2550 | 2500 | 102 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Nickel | 2490 | 2500 | 100 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Potassium | 25600 | 25000 | 103 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Selenium | 5060 | 5000 | 101 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Silver | 1280 | 1250 | 103 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Sodium | 25000 | 25000 | 100 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Thallium | 5090 | 5000 | 102 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Vanadium | 2540 | 2500 | 102 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| | Zinc | 2500 | 2500 | 100 | 90 - 110 | P | 07/10/2025 | 19:43 | LB136434 |
| CCV02 | Aluminum | 9360 | 10000 | 94 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Antimony | 4760 | 5000 | 95 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Arsenic | 4640 | 5000 | 93 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Barium | 9760 | 10000 | 98 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Beryllium | 251 | 250 | 100 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Cadmium | 2380 | 2500 | 95 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Calcium | 24300 | 25000 | 97 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Chromium | 962 | 1000 | 96 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Cobalt | 2320 | 2500 | 93 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Copper | 1230 | 1250 | 99 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Iron | 5010 | 5000 | 100 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Lead | 4710 | 5000 | 94 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV02 | Magnesium | 24300 | 25000 | 97 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Manganese | 2440 | 2500 | 98 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Nickel | 2350 | 2500 | 94 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Potassium | 25900 | 25000 | 104 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Selenium | 4800 | 5000 | 96 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Silver | 1220 | 1250 | 97 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Sodium | 25000 | 25000 | 100 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Thallium | 4840 | 5000 | 97 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Vanadium | 2430 | 2500 | 97 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| | Zinc | 2370 | 2500 | 95 | 90 - 110 | P | 07/10/2025 | 20:59 | LB136434 |
| CCV03 | Aluminum | 9640 | 10000 | 96 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Antimony | 4880 | 5000 | 98 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Arsenic | 4830 | 5000 | 96 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Barium | 10000 | 10000 | 100 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Beryllium | 255 | 250 | 102 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Cadmium | 2480 | 2500 | 99 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Calcium | 24900 | 25000 | 100 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Chromium | 997 | 1000 | 100 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Cobalt | 2410 | 2500 | 96 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Iron | 5140 | 5000 | 103 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Lead | 4930 | 5000 | 99 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Magnesium | 24800 | 25000 | 99 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Manganese | 2510 | 2500 | 100 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Nickel | 2440 | 2500 | 97 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Potassium | 26900 | 25000 | 108 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Selenium | 4940 | 5000 | 99 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Sodium | 26500 | 25000 | 106 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Thallium | 4990 | 5000 | 100 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Vanadium | 2490 | 2500 | 100 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| | Zinc | 2450 | 2500 | 98 | 90 - 110 | P | 07/10/2025 | 22:32 | LB136434 |
| CCV04 | Aluminum | 9350 | 10000 | 94 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Antimony | 4640 | 5000 | 93 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV04 | Arsenic | 4600 | 5000 | 92 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Barium | 9570 | 10000 | 96 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Beryllium | 246 | 250 | 98 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Cadmium | 2350 | 2500 | 94 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Calcium | 23900 | 25000 | 96 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Chromium | 957 | 1000 | 96 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Cobalt | 2290 | 2500 | 92 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Copper | 1220 | 1250 | 97 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Iron | 4890 | 5000 | 98 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Lead | 4690 | 5000 | 94 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Magnesium | 23900 | 25000 | 96 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Manganese | 2400 | 2500 | 96 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Nickel | 2310 | 2500 | 92 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Potassium | 25900 | 25000 | 104 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Selenium | 4700 | 5000 | 94 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Sodium | 25600 | 25000 | 102 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Thallium | 4730 | 5000 | 95 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Vanadium | 2410 | 2500 | 96 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| | Zinc | 2340 | 2500 | 94 | 90 - 110 | P | 07/10/2025 | 23:29 | LB136434 |
| CCV05 | Aluminum | 9510 | 10000 | 95 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Antimony | 4770 | 5000 | 95 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Arsenic | 4750 | 5000 | 95 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Barium | 9800 | 10000 | 98 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Beryllium | 250 | 250 | 100 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Cadmium | 2410 | 2500 | 96 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Calcium | 24200 | 25000 | 97 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Chromium | 978 | 1000 | 98 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Cobalt | 2370 | 2500 | 95 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Copper | 1240 | 1250 | 100 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Iron | 4950 | 5000 | 99 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Lead | 4820 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Magnesium | 24100 | 25000 | 96 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Manganese | 2460 | 2500 | 98 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Nickel | 2370 | 2500 | 95 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Potassium | 27100 | 25000 | 108 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Selenium | 4790 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Silver | 1220 | 1250 | 97 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Sodium | 26600 | 25000 | 106 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Thallium | 4840 | 5000 | 97 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Vanadium | 2470 | 2500 | 99 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| | Zinc | 2430 | 2500 | 97 | 90 - 110 | P | 07/11/2025 | 00:47 | LB136434 |
| CCV06 | Aluminum | 9520 | 10000 | 95 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Antimony | 4790 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Arsenic | 4780 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Barium | 9810 | 10000 | 98 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Beryllium | 248 | 250 | 99 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Cadmium | 2410 | 2500 | 96 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Calcium | 24100 | 25000 | 97 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Chromium | 978 | 1000 | 98 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Cobalt | 2370 | 2500 | 95 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Copper | 1240 | 1250 | 99 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Iron | 4890 | 5000 | 98 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Lead | 4820 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Magnesium | 24200 | 25000 | 97 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Manganese | 2440 | 2500 | 98 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Nickel | 2370 | 2500 | 95 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Potassium | 26200 | 25000 | 105 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Selenium | 4810 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Silver | 1220 | 1250 | 97 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Sodium | 26400 | 25000 | 106 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Thallium | 4840 | 5000 | 97 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Vanadium | 2470 | 2500 | 99 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| | Zinc | 2440 | 2500 | 98 | 90 - 110 | P | 07/11/2025 | 01:47 | LB136434 |
| CCV07 | Aluminum | 9390 | 10000 | 94 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Antimony | 4710 | 5000 | 94 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Arsenic | 4640 | 5000 | 93 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Barium | 9540 | 10000 | 95 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV07 | Beryllium | 236 | 250 | 95 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Cadmium | 2330 | 2500 | 93 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Calcium | 23700 | 25000 | 95 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Chromium | 961 | 1000 | 96 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Cobalt | 2330 | 2500 | 93 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Copper | 1180 | 1250 | 94 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Iron | 4630 | 5000 | 93 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Lead | 4670 | 5000 | 93 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Magnesium | 23600 | 25000 | 94 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Manganese | 2400 | 2500 | 96 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Nickel | 2320 | 2500 | 93 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Potassium | 23800 | 25000 | 95 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Selenium | 4670 | 5000 | 94 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Sodium | 24200 | 25000 | 97 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Thallium | 4710 | 5000 | 94 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Vanadium | 2420 | 2500 | 97 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| | Zinc | 2380 | 2500 | 95 | 90 - 110 | P | 07/11/2025 | 03:17 | LB136434 |
| CCV08 | Aluminum | 9520 | 10000 | 95 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Antimony | 4760 | 5000 | 95 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Arsenic | 4790 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Barium | 9730 | 10000 | 97 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Beryllium | 244 | 250 | 98 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Cadmium | 2400 | 2500 | 96 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Calcium | 23800 | 25000 | 95 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Chromium | 987 | 1000 | 99 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Cobalt | 2390 | 2500 | 96 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Copper | 1220 | 1250 | 98 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Iron | 4780 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Lead | 4820 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Magnesium | 23700 | 25000 | 95 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Manganese | 2430 | 2500 | 97 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Nickel | 2370 | 2500 | 95 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Potassium | 26600 | 25000 | 106 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith
**SDG No.:** Q2514
**Contract:** CAMP02
**Lab Code:** ACE
**Initial Calibration Source:** EPA
**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV08 | Selenium | 4720 | 5000 | 94 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Silver | 1220 | 1250 | 98 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Sodium | 26800 | 25000 | 107 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Thallium | 4790 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Vanadium | 2470 | 2500 | 99 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| | Zinc | 2440 | 2500 | 98 | 90 - 110 | P | 07/11/2025 | 04:18 | LB136434 |
| CCV09 | Aluminum | 9800 | 10000 | 98 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Antimony | 4830 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Arsenic | 4770 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Barium | 9960 | 10000 | 100 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Beryllium | 246 | 250 | 99 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Cadmium | 2380 | 2500 | 95 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Calcium | 24400 | 25000 | 97 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Cobalt | 2400 | 2500 | 96 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Iron | 4810 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Lead | 4770 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Magnesium | 24200 | 25000 | 97 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Manganese | 2490 | 2500 | 100 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Nickel | 2370 | 2500 | 95 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Potassium | 25600 | 25000 | 102 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Selenium | 4720 | 5000 | 94 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Sodium | 26100 | 25000 | 104 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Thallium | 4770 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Vanadium | 2540 | 2500 | 102 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| | Zinc | 2500 | 2500 | 100 | 90 - 110 | P | 07/11/2025 | 05:19 | LB136434 |
| CCV10 | Aluminum | 9570 | 10000 | 96 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Antimony | 4770 | 5000 | 95 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Arsenic | 4790 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Barium | 9830 | 10000 | 98 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Beryllium | 242 | 250 | 97 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Cadmium | 2390 | 2500 | 96 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV10 | Calcium | 23700 | 25000 | 95 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Chromium | 988 | 1000 | 99 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Cobalt | 2390 | 2500 | 96 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Copper | 1220 | 1250 | 98 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Iron | 4700 | 5000 | 94 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Lead | 4800 | 5000 | 96 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Magnesium | 23600 | 25000 | 94 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Manganese | 2440 | 2500 | 98 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Nickel | 2360 | 2500 | 94 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Potassium | 26000 | 25000 | 104 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Selenium | 4710 | 5000 | 94 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Silver | 1210 | 1250 | 97 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Sodium | 26700 | 25000 | 107 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Thallium | 4770 | 5000 | 95 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Vanadium | 2490 | 2500 | 100 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| | Zinc | 2470 | 2500 | 99 | 90 - 110 | P | 07/11/2025 | 06:16 | LB136434 |
| CCV11 | Aluminum | 9570 | 10000 | 96 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Antimony | 4730 | 5000 | 95 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Arsenic | 4750 | 5000 | 95 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Barium | 9790 | 10000 | 98 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Beryllium | 241 | 250 | 96 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Cadmium | 2370 | 2500 | 95 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Calcium | 23900 | 25000 | 95 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Chromium | 982 | 1000 | 98 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Cobalt | 2370 | 2500 | 95 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Copper | 1210 | 1250 | 97 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Iron | 4700 | 5000 | 94 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Lead | 4770 | 5000 | 95 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Magnesium | 23700 | 25000 | 95 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Manganese | 2440 | 2500 | 98 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Nickel | 2340 | 2500 | 94 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Potassium | 25900 | 25000 | 103 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Selenium | 4660 | 5000 | 93 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Silver | 1210 | 1250 | 97 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV11 | Sodium | 26400 | 25000 | 106 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Thallium | 4710 | 5000 | 94 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Vanadium | 2460 | 2500 | 98 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |
| | Zinc | 2440 | 2500 | 98 | 90 - 110 | P | 07/11/2025 | 06:43 | LB136434 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Aluminum | 7880 | 8000 | 98 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Antimony | 4110 | 4000 | 103 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Arsenic | 3840 | 4000 | 96 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Barium | 8020 | 8000 | 100 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Beryllium | 200 | 200 | 100 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Cadmium | 1950 | 2000 | 97 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Calcium | 19900 | 20000 | 99 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Chromium | 791 | 800 | 99 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Cobalt | 2000 | 2000 | 100 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Copper | 1020 | 1000 | 102 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Iron | 3850 | 4000 | 96 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Lead | 3860 | 4000 | 96 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Magnesium | 20100 | 20000 | 101 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Manganese | 2000 | 2000 | 100 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Nickel | 1990 | 2000 | 99 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Potassium | 18100 | 20000 | 91 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Selenium | 3940 | 4000 | 98 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Silver | 936 | 1000 | 94 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Sodium | 18700 | 20000 | 94 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Thallium | 3850 | 4000 | 96 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Vanadium | 2000 | 2000 | 100 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |
| | Zinc | 2010 | 2000 | 100 | 90 - 110 | P | 07/17/2025 | 14:14 | LB136534 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Aluminum | 119 | 100 | 119 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Antimony | 52.4 | 50.0 | 105 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Arsenic | 16.9 | 20.0 | 84 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Barium | 102 | 100 | 102 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Beryllium | 6.21 | 6.0 | 104 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Cadmium | 5.65 | 6.0 | 94 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Calcium | 2050 | 2000 | 103 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Chromium | 10.2 | 10.0 | 102 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Cobalt | 30.3 | 30.0 | 101 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Copper | 21.3 | 20.0 | 107 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Iron | 110 | 100 | 110 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Lead | 10.9 | 12.0 | 91 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Magnesium | 2220 | 2000 | 111 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Manganese | 21.1 | 20.0 | 106 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Nickel | 39.7 | 40.0 | 99 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Potassium | 1740 | 2000 | 87 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Selenium | 17.6 | 20.0 | 88 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Silver | 10.5 | 10.0 | 105 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Sodium | 1750 | 2000 | 87 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Thallium | 41.1 | 40.0 | 103 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Vanadium | 40.0 | 40.0 | 100 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |
| | Zinc | 42.6 | 40.0 | 106 | 80 - 120 | P | 07/17/2025 | 14:24 | LB136534 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Aluminum | 9950 | 10000 | 100 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Antimony | 5020 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Arsenic | 4950 | 5000 | 99 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Barium | 10100 | 10000 | 101 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Beryllium | 254 | 250 | 102 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Cadmium | 2500 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Calcium | 25100 | 25000 | 101 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Cobalt | 2500 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Copper | 1260 | 1250 | 101 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Iron | 5020 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Lead | 4990 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Magnesium | 25100 | 25000 | 100 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Manganese | 2510 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Nickel | 2500 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Potassium | 25400 | 25000 | 102 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Selenium | 5010 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Silver | 1270 | 1250 | 102 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Sodium | 25400 | 25000 | 102 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Thallium | 5050 | 5000 | 101 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Vanadium | 2510 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| | Zinc | 2520 | 2500 | 101 | 90 - 110 | P | 07/17/2025 | 14:56 | LB136534 |
| CCV02 | Aluminum | 9800 | 10000 | 98 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Antimony | 4760 | 5000 | 95 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Arsenic | 4730 | 5000 | 95 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Barium | 9920 | 10000 | 99 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Beryllium | 250 | 250 | 100 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Cadmium | 2410 | 2500 | 96 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Calcium | 24700 | 25000 | 99 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Chromium | 986 | 1000 | 99 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Cobalt | 2390 | 2500 | 96 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Copper | 1240 | 1250 | 100 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Iron | 4950 | 5000 | 99 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Lead | 4810 | 5000 | 96 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV02 | Magnesium | 24500 | 25000 | 98 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Manganese | 2470 | 2500 | 99 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Nickel | 2400 | 2500 | 96 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Potassium | 24700 | 25000 | 99 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Selenium | 4770 | 5000 | 95 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Silver | 1230 | 1250 | 98 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Sodium | 24900 | 25000 | 100 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Thallium | 4820 | 5000 | 96 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Vanadium | 2450 | 2500 | 98 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| | Zinc | 2440 | 2500 | 98 | 90 - 110 | P | 07/17/2025 | 15:44 | LB136534 |
| CCV03 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Antimony | 4980 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Arsenic | 4960 | 5000 | 99 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Barium | 10100 | 10000 | 101 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Beryllium | 258 | 250 | 103 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Cadmium | 2520 | 2500 | 101 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Calcium | 25300 | 25000 | 101 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Cobalt | 2510 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Copper | 1280 | 1250 | 103 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Iron | 5110 | 5000 | 102 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Lead | 5040 | 5000 | 101 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Magnesium | 25000 | 25000 | 100 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Manganese | 2510 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Nickel | 2510 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Potassium | 25600 | 25000 | 102 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Selenium | 4980 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Silver | 1270 | 1250 | 101 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Sodium | 25800 | 25000 | 103 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Thallium | 5050 | 5000 | 101 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Vanadium | 2510 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| | Zinc | 2500 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 17:18 | LB136534 |
| CCV04 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Antimony | 4990 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV04 | Arsenic | 4880 | 5000 | 98 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Barium | 10200 | 10000 | 102 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Beryllium | 246 | 250 | 98 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Cadmium | 2470 | 2500 | 99 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Calcium | 25000 | 25000 | 100 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Chromium | 1010 | 1000 | 101 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Cobalt | 2480 | 2500 | 99 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Copper | 1240 | 1250 | 99 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Iron | 4990 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Lead | 4940 | 5000 | 99 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Magnesium | 24600 | 25000 | 98 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Manganese | 2450 | 2500 | 98 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Nickel | 2490 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Potassium | 23500 | 25000 | 94 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Selenium | 4950 | 5000 | 99 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Sodium | 24000 | 25000 | 96 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Thallium | 4990 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Vanadium | 2470 | 2500 | 99 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| | Zinc | 2490 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 18:45 | LB136534 |
| CCV05 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Antimony | 4990 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Arsenic | 5000 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Barium | 10300 | 10000 | 103 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Beryllium | 247 | 250 | 99 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Cadmium | 2550 | 2500 | 102 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Calcium | 25200 | 25000 | 101 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Chromium | 1010 | 1000 | 101 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Cobalt | 2510 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Copper | 1240 | 1250 | 99 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Iron | 5000 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Lead | 5070 | 5000 | 101 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Magnesium | 24600 | 25000 | 99 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Manganese | 2470 | 2500 | 99 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Nickel | 2520 | 2500 | 101 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Potassium | 25100 | 25000 | 100 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Selenium | 5040 | 5000 | 101 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Sodium | 25500 | 25000 | 102 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Thallium | 5070 | 5000 | 101 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Vanadium | 2490 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| | Zinc | 2500 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 20:11 | LB136534 |
| CCV06 | Aluminum | 10300 | 10000 | 103 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Antimony | 4990 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Arsenic | 4910 | 5000 | 98 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Barium | 10400 | 10000 | 104 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Beryllium | 252 | 250 | 101 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Cadmium | 2500 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Calcium | 25300 | 25000 | 101 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Cobalt | 2480 | 2500 | 99 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Copper | 1260 | 1250 | 101 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Iron | 5150 | 5000 | 103 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Lead | 4960 | 5000 | 99 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Magnesium | 24900 | 25000 | 100 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Manganese | 2490 | 2500 | 99 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Nickel | 2490 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Potassium | 26800 | 25000 | 107 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Selenium | 4960 | 5000 | 99 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Sodium | 25900 | 25000 | 104 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Thallium | 5020 | 5000 | 100 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Vanadium | 2530 | 2500 | 101 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |
| | Zinc | 2510 | 2500 | 100 | 90 - 110 | P | 07/17/2025 | 20:46 | LB136534 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRI01 | Aluminum | 114 | 100 | 114 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Antimony | 53.6 | 50.0 | 107 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Arsenic | 14.2 | 20.0 | 71 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Barium | 104 | 100 | 104 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Beryllium | 6.33 | 6.0 | 105 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Cadmium | 5.51 | 6.0 | 92 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Calcium | 1930 | 2000 | 96 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Chromium | 10.7 | 10.0 | 107 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Cobalt | 29.1 | 30.0 | 97 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Copper | 24.1 | 20.0 | 120 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Iron | 119 | 100 | 119 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Lead | 11.5 | 12.0 | 96 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Magnesium | 2060 | 2000 | 103 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Manganese | 22.6 | 20.0 | 113 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Nickel | 38.2 | 40.0 | 96 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Potassium | 1710 | 2000 | 86 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Selenium | 22.8 | 20.0 | 114 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Silver | 11.6 | 10.0 | 116 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Sodium | 1830 | 2000 | 92 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Thallium | 38.4 | 40.0 | 96 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Vanadium | 32.0 | 40.0 | 80 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| | Zinc | 43.1 | 40.0 | 108 | 65 - 135 | P | 07/09/2025 | 10:26 | LB136407 |
| CRI01 | Aluminum | 85.6 | 100 | 86 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Antimony | 51.2 | 50.0 | 102 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Arsenic | 20.6 | 20.0 | 103 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Barium | 96.3 | 100 | 96 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Beryllium | 6.31 | 6.0 | 105 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Cadmium | 5.33 | 6.0 | 89 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Calcium | 2070 | 2000 | 104 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Chromium | 10.5 | 10.0 | 105 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Cobalt | 28.4 | 30.0 | 94 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Copper | 20.6 | 20.0 | 103 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Iron | 116 | 100 | 116 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Lead | 12.4 | 12.0 | 103 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Magnesium | 2140 | 2000 | 107 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Manganese | 21.9 | 20.0 | 110 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRI01 | Nickel | 37.1 | 40.0 | 93 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Potassium | 1770 | 2000 | 89 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Selenium | 16.7 | 20.0 | 84 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Silver | 10.5 | 10.0 | 105 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Sodium | 1780 | 2000 | 89 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Thallium | 37.7 | 40.0 | 94 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Vanadium | 28.3 | 40.0 | 71 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| | Zinc | 44.6 | 40.0 | 112 | 65 - 135 | P | 07/10/2025 | 19:01 | LB136434 |
| CRA | Mercury | 0.22 | 0.2 | 109 | 70 - 130 | CV | 07/16/2025 | 12:06 | LB136499 |
| CRI01 | Aluminum | 101 | 100 | 101 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Antimony | 54.0 | 50.0 | 108 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Arsenic | 15.4 | 20.0 | 77 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Barium | 101 | 100 | 102 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Beryllium | 6.31 | 6.0 | 105 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Cadmium | 5.72 | 6.0 | 95 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Calcium | 2060 | 2000 | 103 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Chromium | 10.2 | 10.0 | 102 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Cobalt | 30.4 | 30.0 | 101 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Copper | 22.2 | 20.0 | 111 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Iron | 110 | 100 | 110 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Lead | 11.9 | 12.0 | 99 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Magnesium | 2300 | 2000 | 115 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Manganese | 21.5 | 20.0 | 108 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Nickel | 39.6 | 40.0 | 99 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Potassium | 1760 | 2000 | 88 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Selenium | 19.6 | 20.0 | 98 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Silver | 9.57 | 10.0 | 96 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Sodium | 1770 | 2000 | 88 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Thallium | 40.3 | 40.0 | 101 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Vanadium | 38.6 | 40.0 | 96 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |
| | Zinc | 43.0 | 40.0 | 108 | 65 - 135 | P | 07/17/2025 | 14:39 | LB136534 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICB29** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 07/16/2025 | 11:59 | LB136499 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB09** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 07/16/2025 | 12:03 | LB136499 |
| **CCB10** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 07/16/2025 | 12:43 | LB136499 |
| **CCB11** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 07/16/2025 | 13:14 | LB136499 |
| **CCB12** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 07/16/2025 | 13:42 | LB136499 |
| **CCB13** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 07/16/2025 | 14:10 | LB136499 |
| **CCB14** | Mercury | 0.076 | +/-0.2 | U | 0.20 | CV | 07/16/2025 | 14:28 | LB136499 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 31.1 | +/-50 | J | 100 | P | 07/09/2025 | 10:22 | LB136407 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/09/2025 | 10:22 | LB136407 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/09/2025 | 10:22 | LB136407 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/09/2025 | 10:22 | LB136407 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/09/2025 | 10:22 | LB136407 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/09/2025 | 10:22 | LB136407 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/09/2025 | 10:22 | LB136407 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/09/2025 | 10:22 | LB136407 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/09/2025 | 10:22 | LB136407 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/09/2025 | 10:22 | LB136407 |
| | Iron | 25.4 | +/-50 | J | 100 | P | 07/09/2025 | 10:22 | LB136407 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/09/2025 | 10:22 | LB136407 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/09/2025 | 10:22 | LB136407 |
| | Manganese | 7.46 | +/-10 | J | 20.0 | P | 07/09/2025 | 10:22 | LB136407 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/09/2025 | 10:22 | LB136407 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/09/2025 | 10:22 | LB136407 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/09/2025 | 10:22 | LB136407 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/09/2025 | 10:22 | LB136407 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/09/2025 | 10:22 | LB136407 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/09/2025 | 10:22 | LB136407 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/09/2025 | 10:22 | LB136407 |
| | Zinc | 4.21 | +/-20 | J | 40.0 | P | 07/09/2025 | 10:22 | LB136407 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB01 | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/09/2025 | 10:57 | LB136407 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/09/2025 | 10:57 | LB136407 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/09/2025 | 10:57 | LB136407 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/09/2025 | 10:57 | LB136407 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/09/2025 | 10:57 | LB136407 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/09/2025 | 10:57 | LB136407 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/09/2025 | 10:57 | LB136407 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/09/2025 | 10:57 | LB136407 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/09/2025 | 10:57 | LB136407 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/09/2025 | 10:57 | LB136407 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/09/2025 | 10:57 | LB136407 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/09/2025 | 10:57 | LB136407 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/09/2025 | 10:57 | LB136407 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/09/2025 | 10:57 | LB136407 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/09/2025 | 10:57 | LB136407 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/09/2025 | 10:57 | LB136407 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/09/2025 | 10:57 | LB136407 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/09/2025 | 10:57 | LB136407 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/09/2025 | 10:57 | LB136407 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/09/2025 | 10:57 | LB136407 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/09/2025 | 10:57 | LB136407 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/09/2025 | 10:57 | LB136407 |
| CCB02 | Aluminum | 27.5 | +/-50 | J | 100 | P | 07/09/2025 | 11:56 | LB136407 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/09/2025 | 11:56 | LB136407 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/09/2025 | 11:56 | LB136407 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/09/2025 | 11:56 | LB136407 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/09/2025 | 11:56 | LB136407 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/09/2025 | 11:56 | LB136407 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/09/2025 | 11:56 | LB136407 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/09/2025 | 11:56 | LB136407 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/09/2025 | 11:56 | LB136407 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/09/2025 | 11:56 | LB136407 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/09/2025 | 11:56 | LB136407 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/09/2025 | 11:56 | LB136407 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/09/2025 | 11:56 | LB136407 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/09/2025 | 11:56 | LB136407 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/09/2025 | 11:56 | LB136407 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/09/2025 | 11:56 | LB136407 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/09/2025 | 11:56 | LB136407 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB02** | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/09/2025 | 11:56 | LB136407 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/09/2025 | 11:56 | LB136407 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/09/2025 | 11:56 | LB136407 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/09/2025 | 11:56 | LB136407 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/09/2025 | 11:56 | LB136407 |
| **CCB03** | Aluminum | 65.9 | +/-50 | J* | 100 | P | 07/09/2025 | 12:58 | LB136407 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/09/2025 | 12:58 | LB136407 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/09/2025 | 12:58 | LB136407 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/09/2025 | 12:58 | LB136407 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/09/2025 | 12:58 | LB136407 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/09/2025 | 12:58 | LB136407 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/09/2025 | 12:58 | LB136407 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/09/2025 | 12:58 | LB136407 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/09/2025 | 12:58 | LB136407 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/09/2025 | 12:58 | LB136407 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/09/2025 | 12:58 | LB136407 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/09/2025 | 12:58 | LB136407 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/09/2025 | 12:58 | LB136407 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/09/2025 | 12:58 | LB136407 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/09/2025 | 12:58 | LB136407 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/09/2025 | 12:58 | LB136407 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/09/2025 | 12:58 | LB136407 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/09/2025 | 12:58 | LB136407 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/09/2025 | 12:58 | LB136407 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/09/2025 | 12:58 | LB136407 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/09/2025 | 12:58 | LB136407 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/09/2025 | 12:58 | LB136407 |
| **CCB04** | Aluminum | 47.3 | +/-50 | J | 100 | P | 07/09/2025 | 14:28 | LB136407 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/09/2025 | 14:28 | LB136407 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/09/2025 | 14:28 | LB136407 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/09/2025 | 14:28 | LB136407 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/09/2025 | 14:28 | LB136407 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/09/2025 | 14:28 | LB136407 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/09/2025 | 14:28 | LB136407 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/09/2025 | 14:28 | LB136407 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/09/2025 | 14:28 | LB136407 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/09/2025 | 14:28 | LB136407 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/09/2025 | 14:28 | LB136407 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/09/2025 | 14:28 | LB136407 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB04** | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/09/2025 | 14:28 | LB136407 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/09/2025 | 14:28 | LB136407 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/09/2025 | 14:28 | LB136407 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/09/2025 | 14:28 | LB136407 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/09/2025 | 14:28 | LB136407 |
| | Silver | 7.86 | +/-5 | J* | 10.0 | P | 07/09/2025 | 14:28 | LB136407 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/09/2025 | 14:28 | LB136407 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/09/2025 | 14:28 | LB136407 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/09/2025 | 14:28 | LB136407 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/09/2025 | 14:28 | LB136407 |
| **CCB05** | Aluminum | 26.6 | +/-50 | J | 100 | P | 07/09/2025 | 15:33 | LB136407 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/09/2025 | 15:33 | LB136407 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/09/2025 | 15:33 | LB136407 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/09/2025 | 15:33 | LB136407 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/09/2025 | 15:33 | LB136407 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/09/2025 | 15:33 | LB136407 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/09/2025 | 15:33 | LB136407 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/09/2025 | 15:33 | LB136407 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/09/2025 | 15:33 | LB136407 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/09/2025 | 15:33 | LB136407 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/09/2025 | 15:33 | LB136407 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/09/2025 | 15:33 | LB136407 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/09/2025 | 15:33 | LB136407 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/09/2025 | 15:33 | LB136407 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/09/2025 | 15:33 | LB136407 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/09/2025 | 15:33 | LB136407 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/09/2025 | 15:33 | LB136407 |
| | Silver | 6.92 | +/-5 | J* | 10.0 | P | 07/09/2025 | 15:33 | LB136407 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/09/2025 | 15:33 | LB136407 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/09/2025 | 15:33 | LB136407 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/09/2025 | 15:33 | LB136407 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/09/2025 | 15:33 | LB136407 |
| **CCB06** | Aluminum | 18.8 | +/-50 | J | 100 | P | 07/09/2025 | 16:43 | LB136407 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/09/2025 | 16:43 | LB136407 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/09/2025 | 16:43 | LB136407 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/09/2025 | 16:43 | LB136407 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/09/2025 | 16:43 | LB136407 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/09/2025 | 16:43 | LB136407 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/09/2025 | 16:43 | LB136407 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB06** | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/09/2025 | 16:43 | LB136407 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/09/2025 | 16:43 | LB136407 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/09/2025 | 16:43 | LB136407 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/09/2025 | 16:43 | LB136407 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/09/2025 | 16:43 | LB136407 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/09/2025 | 16:43 | LB136407 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/09/2025 | 16:43 | LB136407 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/09/2025 | 16:43 | LB136407 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/09/2025 | 16:43 | LB136407 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/09/2025 | 16:43 | LB136407 |
| | Silver | 3.51 | +/-5 | J | 10.0 | P | 07/09/2025 | 16:43 | LB136407 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/09/2025 | 16:43 | LB136407 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/09/2025 | 16:43 | LB136407 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/09/2025 | 16:43 | LB136407 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/09/2025 | 16:43 | LB136407 |
| **CCB07** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/09/2025 | 17:54 | LB136407 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/09/2025 | 17:54 | LB136407 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/09/2025 | 17:54 | LB136407 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/09/2025 | 17:54 | LB136407 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/09/2025 | 17:54 | LB136407 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/09/2025 | 17:54 | LB136407 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/09/2025 | 17:54 | LB136407 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/09/2025 | 17:54 | LB136407 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/09/2025 | 17:54 | LB136407 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/09/2025 | 17:54 | LB136407 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/09/2025 | 17:54 | LB136407 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/09/2025 | 17:54 | LB136407 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/09/2025 | 17:54 | LB136407 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/09/2025 | 17:54 | LB136407 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/09/2025 | 17:54 | LB136407 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/09/2025 | 17:54 | LB136407 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/09/2025 | 17:54 | LB136407 |
| | Silver | 2.23 | +/-5 | J | 10.0 | P | 07/09/2025 | 17:54 | LB136407 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/09/2025 | 17:54 | LB136407 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/09/2025 | 17:54 | LB136407 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/09/2025 | 17:54 | LB136407 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/09/2025 | 17:54 | LB136407 |
| **CCB08** | Aluminum | 44.5 | +/-50 | J | 100 | P | 07/09/2025 | 18:58 | LB136407 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/09/2025 | 18:58 | LB136407 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB08** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/09/2025 | 18:58 | LB136407 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/09/2025 | 18:58 | LB136407 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/09/2025 | 18:58 | LB136407 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/09/2025 | 18:58 | LB136407 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/09/2025 | 18:58 | LB136407 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/09/2025 | 18:58 | LB136407 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/09/2025 | 18:58 | LB136407 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/09/2025 | 18:58 | LB136407 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/09/2025 | 18:58 | LB136407 |
| | Lead | 3.36 | +/-6 | J | 12.0 | P | 07/09/2025 | 18:58 | LB136407 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/09/2025 | 18:58 | LB136407 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/09/2025 | 18:58 | LB136407 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/09/2025 | 18:58 | LB136407 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/09/2025 | 18:58 | LB136407 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/09/2025 | 18:58 | LB136407 |
| | Silver | 2.96 | +/-5 | J | 10.0 | P | 07/09/2025 | 18:58 | LB136407 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/09/2025 | 18:58 | LB136407 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/09/2025 | 18:58 | LB136407 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/09/2025 | 18:58 | LB136407 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/09/2025 | 18:58 | LB136407 |
| **CCB09** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/09/2025 | 19:52 | LB136407 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/09/2025 | 19:52 | LB136407 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/09/2025 | 19:52 | LB136407 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/09/2025 | 19:52 | LB136407 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/09/2025 | 19:52 | LB136407 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/09/2025 | 19:52 | LB136407 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/09/2025 | 19:52 | LB136407 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/09/2025 | 19:52 | LB136407 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/09/2025 | 19:52 | LB136407 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/09/2025 | 19:52 | LB136407 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/09/2025 | 19:52 | LB136407 |
| | Lead | 2.75 | +/-6 | J | 12.0 | P | 07/09/2025 | 19:52 | LB136407 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/09/2025 | 19:52 | LB136407 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/09/2025 | 19:52 | LB136407 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/09/2025 | 19:52 | LB136407 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/09/2025 | 19:52 | LB136407 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/09/2025 | 19:52 | LB136407 |
| | Silver | 2.59 | +/-5 | J | 10.0 | P | 07/09/2025 | 19:52 | LB136407 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/09/2025 | 19:52 | LB136407 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB09** | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/09/2025 | 19:52 | LB136407 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/09/2025 | 19:52 | LB136407 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/09/2025 | 19:52 | LB136407 |
| **CCB10** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/09/2025 | 20:45 | LB136407 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/09/2025 | 20:45 | LB136407 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/09/2025 | 20:45 | LB136407 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/09/2025 | 20:45 | LB136407 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/09/2025 | 20:45 | LB136407 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/09/2025 | 20:45 | LB136407 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/09/2025 | 20:45 | LB136407 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/09/2025 | 20:45 | LB136407 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/09/2025 | 20:45 | LB136407 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/09/2025 | 20:45 | LB136407 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/09/2025 | 20:45 | LB136407 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/09/2025 | 20:45 | LB136407 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/09/2025 | 20:45 | LB136407 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/09/2025 | 20:45 | LB136407 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/09/2025 | 20:45 | LB136407 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/09/2025 | 20:45 | LB136407 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/09/2025 | 20:45 | LB136407 |
| | Silver | 1.92 | +/-5 | J | 10.0 | P | 07/09/2025 | 20:45 | LB136407 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/09/2025 | 20:45 | LB136407 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/09/2025 | 20:45 | LB136407 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/09/2025 | 20:45 | LB136407 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/09/2025 | 20:45 | LB136407 |
| **CCB11** | Aluminum | 23.1 | +/-50 | J | 100 | P | 07/09/2025 | 21:16 | LB136407 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/09/2025 | 21:16 | LB136407 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/09/2025 | 21:16 | LB136407 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/09/2025 | 21:16 | LB136407 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/09/2025 | 21:16 | LB136407 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/09/2025 | 21:16 | LB136407 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/09/2025 | 21:16 | LB136407 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/09/2025 | 21:16 | LB136407 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/09/2025 | 21:16 | LB136407 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/09/2025 | 21:16 | LB136407 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/09/2025 | 21:16 | LB136407 |
| | Lead | 4.79 | +/-6 | J | 12.0 | P | 07/09/2025 | 21:16 | LB136407 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/09/2025 | 21:16 | LB136407 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/09/2025 | 21:16 | LB136407 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB11 | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/09/2025 | 21:16 | LB136407 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/09/2025 | 21:16 | LB136407 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/09/2025 | 21:16 | LB136407 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/09/2025 | 21:16 | LB136407 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/09/2025 | 21:16 | LB136407 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/09/2025 | 21:16 | LB136407 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/09/2025 | 21:16 | LB136407 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/09/2025 | 21:16 | LB136407 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/10/2025 | 18:55 | LB136434 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/10/2025 | 18:55 | LB136434 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/10/2025 | 18:55 | LB136434 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/10/2025 | 18:55 | LB136434 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/10/2025 | 18:55 | LB136434 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/10/2025 | 18:55 | LB136434 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/10/2025 | 18:55 | LB136434 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/10/2025 | 18:55 | LB136434 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/10/2025 | 18:55 | LB136434 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/10/2025 | 18:55 | LB136434 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/10/2025 | 18:55 | LB136434 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/10/2025 | 18:55 | LB136434 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/10/2025 | 18:55 | LB136434 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/10/2025 | 18:55 | LB136434 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/10/2025 | 18:55 | LB136434 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/10/2025 | 18:55 | LB136434 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/10/2025 | 18:55 | LB136434 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/10/2025 | 18:55 | LB136434 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/10/2025 | 18:55 | LB136434 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/10/2025 | 18:55 | LB136434 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/10/2025 | 18:55 | LB136434 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/10/2025 | 18:55 | LB136434 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/10/2025 | 19:54 | LB136434 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/10/2025 | 19:54 | LB136434 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/10/2025 | 19:54 | LB136434 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/10/2025 | 19:54 | LB136434 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/10/2025 | 19:54 | LB136434 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/10/2025 | 19:54 | LB136434 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/10/2025 | 19:54 | LB136434 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/10/2025 | 19:54 | LB136434 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/10/2025 | 19:54 | LB136434 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/10/2025 | 19:54 | LB136434 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/10/2025 | 19:54 | LB136434 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/10/2025 | 19:54 | LB136434 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/10/2025 | 19:54 | LB136434 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/10/2025 | 19:54 | LB136434 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/10/2025 | 19:54 | LB136434 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/10/2025 | 19:54 | LB136434 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/10/2025 | 19:54 | LB136434 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/10/2025 | 19:54 | LB136434 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/10/2025 | 19:54 | LB136434 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/10/2025 | 19:54 | LB136434 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/10/2025 | 19:54 | LB136434 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/10/2025 | 19:54 | LB136434 |
| **CCB02** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/10/2025 | 21:04 | LB136434 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/10/2025 | 21:04 | LB136434 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/10/2025 | 21:04 | LB136434 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/10/2025 | 21:04 | LB136434 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/10/2025 | 21:04 | LB136434 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/10/2025 | 21:04 | LB136434 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/10/2025 | 21:04 | LB136434 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/10/2025 | 21:04 | LB136434 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/10/2025 | 21:04 | LB136434 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/10/2025 | 21:04 | LB136434 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/10/2025 | 21:04 | LB136434 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/10/2025 | 21:04 | LB136434 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/10/2025 | 21:04 | LB136434 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/10/2025 | 21:04 | LB136434 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/10/2025 | 21:04 | LB136434 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/10/2025 | 21:04 | LB136434 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/10/2025 | 21:04 | LB136434 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB02** | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/10/2025 | 21:04 | LB136434 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/10/2025 | 21:04 | LB136434 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/10/2025 | 21:04 | LB136434 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/10/2025 | 21:04 | LB136434 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/10/2025 | 21:04 | LB136434 |
| **CCB03** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/10/2025 | 22:36 | LB136434 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/10/2025 | 22:36 | LB136434 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/10/2025 | 22:36 | LB136434 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/10/2025 | 22:36 | LB136434 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/10/2025 | 22:36 | LB136434 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/10/2025 | 22:36 | LB136434 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/10/2025 | 22:36 | LB136434 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/10/2025 | 22:36 | LB136434 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/10/2025 | 22:36 | LB136434 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/10/2025 | 22:36 | LB136434 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/10/2025 | 22:36 | LB136434 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/10/2025 | 22:36 | LB136434 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/10/2025 | 22:36 | LB136434 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/10/2025 | 22:36 | LB136434 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/10/2025 | 22:36 | LB136434 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/10/2025 | 22:36 | LB136434 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/10/2025 | 22:36 | LB136434 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/10/2025 | 22:36 | LB136434 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/10/2025 | 22:36 | LB136434 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/10/2025 | 22:36 | LB136434 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/10/2025 | 22:36 | LB136434 |
| | Zinc | 3.50 | +/-20 | J | 40.0 | P | 07/10/2025 | 22:36 | LB136434 |
| **CCB04** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/10/2025 | 23:53 | LB136434 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/10/2025 | 23:53 | LB136434 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/10/2025 | 23:53 | LB136434 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/10/2025 | 23:53 | LB136434 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/10/2025 | 23:53 | LB136434 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/10/2025 | 23:53 | LB136434 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/10/2025 | 23:53 | LB136434 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/10/2025 | 23:53 | LB136434 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/10/2025 | 23:53 | LB136434 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/10/2025 | 23:53 | LB136434 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/10/2025 | 23:53 | LB136434 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/10/2025 | 23:53 | LB136434 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB04** | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/10/2025 | 23:53 | LB136434 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/10/2025 | 23:53 | LB136434 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/10/2025 | 23:53 | LB136434 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/10/2025 | 23:53 | LB136434 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/10/2025 | 23:53 | LB136434 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/10/2025 | 23:53 | LB136434 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/10/2025 | 23:53 | LB136434 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/10/2025 | 23:53 | LB136434 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/10/2025 | 23:53 | LB136434 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/10/2025 | 23:53 | LB136434 |
| **CCB05** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/11/2025 | 00:51 | LB136434 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/11/2025 | 00:51 | LB136434 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/11/2025 | 00:51 | LB136434 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/11/2025 | 00:51 | LB136434 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/11/2025 | 00:51 | LB136434 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/11/2025 | 00:51 | LB136434 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/11/2025 | 00:51 | LB136434 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/11/2025 | 00:51 | LB136434 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/11/2025 | 00:51 | LB136434 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/11/2025 | 00:51 | LB136434 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/11/2025 | 00:51 | LB136434 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/11/2025 | 00:51 | LB136434 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/11/2025 | 00:51 | LB136434 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/11/2025 | 00:51 | LB136434 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/11/2025 | 00:51 | LB136434 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/11/2025 | 00:51 | LB136434 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/11/2025 | 00:51 | LB136434 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/11/2025 | 00:51 | LB136434 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/11/2025 | 00:51 | LB136434 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/11/2025 | 00:51 | LB136434 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/11/2025 | 00:51 | LB136434 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/11/2025 | 00:51 | LB136434 |
| **CCB06** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/11/2025 | 02:23 | LB136434 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/11/2025 | 02:23 | LB136434 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/11/2025 | 02:23 | LB136434 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/11/2025 | 02:23 | LB136434 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/11/2025 | 02:23 | LB136434 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/11/2025 | 02:23 | LB136434 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/11/2025 | 02:23 | LB136434 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB06** | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/11/2025 | 02:23 | LB136434 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/11/2025 | 02:23 | LB136434 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/11/2025 | 02:23 | LB136434 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/11/2025 | 02:23 | LB136434 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/11/2025 | 02:23 | LB136434 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/11/2025 | 02:23 | LB136434 |
| | Manganese | 8.75 | +/-10 | J | 20.0 | P | 07/11/2025 | 02:23 | LB136434 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/11/2025 | 02:23 | LB136434 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/11/2025 | 02:23 | LB136434 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/11/2025 | 02:23 | LB136434 |
| | Silver | 4.87 | +/-5 | J | 10.0 | P | 07/11/2025 | 02:23 | LB136434 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/11/2025 | 02:23 | LB136434 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/11/2025 | 02:23 | LB136434 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/11/2025 | 02:23 | LB136434 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/11/2025 | 02:23 | LB136434 |
| **CCB07** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/11/2025 | 03:26 | LB136434 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/11/2025 | 03:26 | LB136434 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/11/2025 | 03:26 | LB136434 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/11/2025 | 03:26 | LB136434 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/11/2025 | 03:26 | LB136434 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/11/2025 | 03:26 | LB136434 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/11/2025 | 03:26 | LB136434 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/11/2025 | 03:26 | LB136434 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/11/2025 | 03:26 | LB136434 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/11/2025 | 03:26 | LB136434 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/11/2025 | 03:26 | LB136434 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/11/2025 | 03:26 | LB136434 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/11/2025 | 03:26 | LB136434 |
| | Manganese | 9.63 | +/-10 | J | 20.0 | P | 07/11/2025 | 03:26 | LB136434 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/11/2025 | 03:26 | LB136434 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/11/2025 | 03:26 | LB136434 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/11/2025 | 03:26 | LB136434 |
| | Silver | 4.57 | +/-5 | J | 10.0 | P | 07/11/2025 | 03:26 | LB136434 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/11/2025 | 03:26 | LB136434 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/11/2025 | 03:26 | LB136434 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/11/2025 | 03:26 | LB136434 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/11/2025 | 03:26 | LB136434 |
| **CCB08** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/11/2025 | 04:27 | LB136434 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/11/2025 | 04:27 | LB136434 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB08** | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/11/2025 | 04:27 | LB136434 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/11/2025 | 04:27 | LB136434 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/11/2025 | 04:27 | LB136434 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/11/2025 | 04:27 | LB136434 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/11/2025 | 04:27 | LB136434 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/11/2025 | 04:27 | LB136434 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/11/2025 | 04:27 | LB136434 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/11/2025 | 04:27 | LB136434 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/11/2025 | 04:27 | LB136434 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/11/2025 | 04:27 | LB136434 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/11/2025 | 04:27 | LB136434 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/11/2025 | 04:27 | LB136434 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/11/2025 | 04:27 | LB136434 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/11/2025 | 04:27 | LB136434 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/11/2025 | 04:27 | LB136434 |
| | Silver | 6.06 | +/-5 | J* | 10.0 | P | 07/11/2025 | 04:27 | LB136434 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/11/2025 | 04:27 | LB136434 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/11/2025 | 04:27 | LB136434 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/11/2025 | 04:27 | LB136434 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/11/2025 | 04:27 | LB136434 |
| **CCB09** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/11/2025 | 05:24 | LB136434 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/11/2025 | 05:24 | LB136434 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/11/2025 | 05:24 | LB136434 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/11/2025 | 05:24 | LB136434 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/11/2025 | 05:24 | LB136434 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/11/2025 | 05:24 | LB136434 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/11/2025 | 05:24 | LB136434 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/11/2025 | 05:24 | LB136434 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/11/2025 | 05:24 | LB136434 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/11/2025 | 05:24 | LB136434 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/11/2025 | 05:24 | LB136434 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/11/2025 | 05:24 | LB136434 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/11/2025 | 05:24 | LB136434 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/11/2025 | 05:24 | LB136434 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/11/2025 | 05:24 | LB136434 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/11/2025 | 05:24 | LB136434 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/11/2025 | 05:24 | LB136434 |
| | Silver | 2.97 | +/-5 | J | 10.0 | P | 07/11/2025 | 05:24 | LB136434 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/11/2025 | 05:24 | LB136434 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB09** | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/11/2025 | 05:24 | LB136434 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/11/2025 | 05:24 | LB136434 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/11/2025 | 05:24 | LB136434 |
| **CCB10** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/11/2025 | 06:21 | LB136434 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/11/2025 | 06:21 | LB136434 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/11/2025 | 06:21 | LB136434 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/11/2025 | 06:21 | LB136434 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/11/2025 | 06:21 | LB136434 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/11/2025 | 06:21 | LB136434 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/11/2025 | 06:21 | LB136434 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/11/2025 | 06:21 | LB136434 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/11/2025 | 06:21 | LB136434 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/11/2025 | 06:21 | LB136434 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/11/2025 | 06:21 | LB136434 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/11/2025 | 06:21 | LB136434 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/11/2025 | 06:21 | LB136434 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/11/2025 | 06:21 | LB136434 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/11/2025 | 06:21 | LB136434 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/11/2025 | 06:21 | LB136434 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/11/2025 | 06:21 | LB136434 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/11/2025 | 06:21 | LB136434 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/11/2025 | 06:21 | LB136434 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/11/2025 | 06:21 | LB136434 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/11/2025 | 06:21 | LB136434 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/11/2025 | 06:21 | LB136434 |
| **CCB11** | Aluminum | 11.3 | +/-50 | U | 100 | P | 07/11/2025 | 06:47 | LB136434 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/11/2025 | 06:47 | LB136434 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/11/2025 | 06:47 | LB136434 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/11/2025 | 06:47 | LB136434 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/11/2025 | 06:47 | LB136434 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/11/2025 | 06:47 | LB136434 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/11/2025 | 06:47 | LB136434 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/11/2025 | 06:47 | LB136434 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/11/2025 | 06:47 | LB136434 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/11/2025 | 06:47 | LB136434 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/11/2025 | 06:47 | LB136434 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/11/2025 | 06:47 | LB136434 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/11/2025 | 06:47 | LB136434 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/11/2025 | 06:47 | LB136434 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB11 | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/11/2025 | 06:47 | LB136434 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/11/2025 | 06:47 | LB136434 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/11/2025 | 06:47 | LB136434 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/11/2025 | 06:47 | LB136434 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/11/2025 | 06:47 | LB136434 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/11/2025 | 06:47 | LB136434 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/11/2025 | 06:47 | LB136434 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/11/2025 | 06:47 | LB136434 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 44.1 | +/-50 | J | 100 | P | 07/17/2025 | 14:29 | LB136534 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/17/2025 | 14:29 | LB136534 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/17/2025 | 14:29 | LB136534 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/17/2025 | 14:29 | LB136534 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/17/2025 | 14:29 | LB136534 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/17/2025 | 14:29 | LB136534 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/17/2025 | 14:29 | LB136534 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/17/2025 | 14:29 | LB136534 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/17/2025 | 14:29 | LB136534 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/17/2025 | 14:29 | LB136534 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/17/2025 | 14:29 | LB136534 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/17/2025 | 14:29 | LB136534 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/17/2025 | 14:29 | LB136534 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/17/2025 | 14:29 | LB136534 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/17/2025 | 14:29 | LB136534 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/17/2025 | 14:29 | LB136534 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/17/2025 | 14:29 | LB136534 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/17/2025 | 14:29 | LB136534 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/17/2025 | 14:29 | LB136534 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/17/2025 | 14:29 | LB136534 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/17/2025 | 14:29 | LB136534 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/17/2025 | 14:29 | LB136534 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Aluminum | 34.3 | +/-50 | J | 100 | P | 07/17/2025 | 15:01 | LB136534 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/17/2025 | 15:01 | LB136534 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/17/2025 | 15:01 | LB136534 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/17/2025 | 15:01 | LB136534 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/17/2025 | 15:01 | LB136534 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/17/2025 | 15:01 | LB136534 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/17/2025 | 15:01 | LB136534 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/17/2025 | 15:01 | LB136534 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/17/2025 | 15:01 | LB136534 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/17/2025 | 15:01 | LB136534 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/17/2025 | 15:01 | LB136534 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/17/2025 | 15:01 | LB136534 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/17/2025 | 15:01 | LB136534 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/17/2025 | 15:01 | LB136534 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/17/2025 | 15:01 | LB136534 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/17/2025 | 15:01 | LB136534 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/17/2025 | 15:01 | LB136534 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/17/2025 | 15:01 | LB136534 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/17/2025 | 15:01 | LB136534 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/17/2025 | 15:01 | LB136534 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/17/2025 | 15:01 | LB136534 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/17/2025 | 15:01 | LB136534 |
| **CCB02** | Aluminum | 20.6 | +/-50 | J | 100 | P | 07/17/2025 | 15:49 | LB136534 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/17/2025 | 15:49 | LB136534 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/17/2025 | 15:49 | LB136534 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/17/2025 | 15:49 | LB136534 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/17/2025 | 15:49 | LB136534 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/17/2025 | 15:49 | LB136534 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/17/2025 | 15:49 | LB136534 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/17/2025 | 15:49 | LB136534 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/17/2025 | 15:49 | LB136534 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/17/2025 | 15:49 | LB136534 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/17/2025 | 15:49 | LB136534 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/17/2025 | 15:49 | LB136534 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/17/2025 | 15:49 | LB136534 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/17/2025 | 15:49 | LB136534 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/17/2025 | 15:49 | LB136534 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/17/2025 | 15:49 | LB136534 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/17/2025 | 15:49 | LB136534 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB02** | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/17/2025 | 15:49 | LB136534 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/17/2025 | 15:49 | LB136534 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/17/2025 | 15:49 | LB136534 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/17/2025 | 15:49 | LB136534 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/17/2025 | 15:49 | LB136534 |
| **CCB03** | Aluminum | 30.1 | +/-50 | J | 100 | P | 07/17/2025 | 17:36 | LB136534 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/17/2025 | 17:36 | LB136534 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/17/2025 | 17:36 | LB136534 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/17/2025 | 17:36 | LB136534 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/17/2025 | 17:36 | LB136534 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/17/2025 | 17:36 | LB136534 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/17/2025 | 17:36 | LB136534 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/17/2025 | 17:36 | LB136534 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/17/2025 | 17:36 | LB136534 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/17/2025 | 17:36 | LB136534 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/17/2025 | 17:36 | LB136534 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/17/2025 | 17:36 | LB136534 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/17/2025 | 17:36 | LB136534 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/17/2025 | 17:36 | LB136534 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/17/2025 | 17:36 | LB136534 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/17/2025 | 17:36 | LB136534 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/17/2025 | 17:36 | LB136534 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/17/2025 | 17:36 | LB136534 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/17/2025 | 17:36 | LB136534 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/17/2025 | 17:36 | LB136534 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/17/2025 | 17:36 | LB136534 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/17/2025 | 17:36 | LB136534 |
| **CCB04** | Aluminum | 27.5 | +/-50 | J | 100 | P | 07/17/2025 | 18:50 | LB136534 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/17/2025 | 18:50 | LB136534 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/17/2025 | 18:50 | LB136534 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/17/2025 | 18:50 | LB136534 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/17/2025 | 18:50 | LB136534 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/17/2025 | 18:50 | LB136534 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/17/2025 | 18:50 | LB136534 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/17/2025 | 18:50 | LB136534 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/17/2025 | 18:50 | LB136534 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/17/2025 | 18:50 | LB136534 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/17/2025 | 18:50 | LB136534 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/17/2025 | 18:50 | LB136534 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB04** | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/17/2025 | 18:50 | LB136534 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/17/2025 | 18:50 | LB136534 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/17/2025 | 18:50 | LB136534 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/17/2025 | 18:50 | LB136534 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/17/2025 | 18:50 | LB136534 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/17/2025 | 18:50 | LB136534 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/17/2025 | 18:50 | LB136534 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/17/2025 | 18:50 | LB136534 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/17/2025 | 18:50 | LB136534 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/17/2025 | 18:50 | LB136534 |
| **CCB05** | Aluminum | 19.5 | +/-50 | J | 100 | P | 07/17/2025 | 20:16 | LB136534 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/17/2025 | 20:16 | LB136534 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/17/2025 | 20:16 | LB136534 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/17/2025 | 20:16 | LB136534 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/17/2025 | 20:16 | LB136534 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/17/2025 | 20:16 | LB136534 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/17/2025 | 20:16 | LB136534 |
| | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/17/2025 | 20:16 | LB136534 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/17/2025 | 20:16 | LB136534 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/17/2025 | 20:16 | LB136534 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/17/2025 | 20:16 | LB136534 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/17/2025 | 20:16 | LB136534 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/17/2025 | 20:16 | LB136534 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/17/2025 | 20:16 | LB136534 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/17/2025 | 20:16 | LB136534 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/17/2025 | 20:16 | LB136534 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/17/2025 | 20:16 | LB136534 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/17/2025 | 20:16 | LB136534 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/17/2025 | 20:16 | LB136534 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/17/2025 | 20:16 | LB136534 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/17/2025 | 20:16 | LB136534 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/17/2025 | 20:16 | LB136534 |
| **CCB06** | Aluminum | 12.5 | +/-50 | J | 100 | P | 07/17/2025 | 20:51 | LB136534 |
| | Antimony | 6.76 | +/-25 | U | 50.0 | P | 07/17/2025 | 20:51 | LB136534 |
| | Arsenic | 5.12 | +/-10 | U | 20.0 | P | 07/17/2025 | 20:51 | LB136534 |
| | Barium | 14.6 | +/-50 | U | 100 | P | 07/17/2025 | 20:51 | LB136534 |
| | Beryllium | 0.56 | +/-3 | U | 6.00 | P | 07/17/2025 | 20:51 | LB136534 |
| | Cadmium | 0.50 | +/-3 | U | 6.00 | P | 07/17/2025 | 20:51 | LB136534 |
| | Calcium | 234 | +/-1000 | U | 2000 | P | 07/17/2025 | 20:51 | LB136534 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB06 | Chromium | 2.12 | +/-5 | U | 10.0 | P | 07/17/2025 | 20:51 | LB136534 |
| | Cobalt | 2.26 | +/-15 | U | 30.0 | P | 07/17/2025 | 20:51 | LB136534 |
| | Copper | 4.60 | +/-10 | U | 20.0 | P | 07/17/2025 | 20:51 | LB136534 |
| | Iron | 23.4 | +/-50 | U | 100 | P | 07/17/2025 | 20:51 | LB136534 |
| | Lead | 2.30 | +/-6 | U | 12.0 | P | 07/17/2025 | 20:51 | LB136534 |
| | Magnesium | 244 | +/-1000 | U | 2000 | P | 07/17/2025 | 20:51 | LB136534 |
| | Manganese | 5.94 | +/-10 | U | 20.0 | P | 07/17/2025 | 20:51 | LB136534 |
| | Nickel | 3.06 | +/-20 | U | 40.0 | P | 07/17/2025 | 20:51 | LB136534 |
| | Potassium | 918 | +/-1000 | U | 2000 | P | 07/17/2025 | 20:51 | LB136534 |
| | Selenium | 9.64 | +/-10 | U | 20.0 | P | 07/17/2025 | 20:51 | LB136534 |
| | Silver | 1.62 | +/-5 | U | 10.0 | P | 07/17/2025 | 20:51 | LB136534 |
| | Sodium | 868 | +/-1000 | U | 2000 | P | 07/17/2025 | 20:51 | LB136534 |
| | Thallium | 4.38 | +/-20 | U | 40.0 | P | 07/17/2025 | 20:51 | LB136534 |
| | Vanadium | 6.26 | +/-20 | U | 40.0 | P | 07/17/2025 | 20:51 | LB136534 |
| | Zinc | 3.50 | +/-20 | U | 40.0 | P | 07/17/2025 | 20:51 | LB136534 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Instrument:** CV1

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB168892BL** | | **SOLID** | | **Batch Number:** | **PB168892** | | **Prep Date:** | **07/15/2025** | |
| | Mercury | 0.0070 | <0.013 | U | 0.013 | CV | 07/16/2025 | 13:04 | LB136499 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Instrument:** P5

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB168740BL** | | **SOLID** | | **Batch Number:** | **PB168740** | | **Prep Date:** | **07/07/2025** | |
| | Aluminum | 0.84 | <2.5 | U | 5.00 | P | 07/11/2025 | 00:34 | LB136434 |
| | Antimony | 0.22 | <1.25 | U | 2.50 | P | 07/11/2025 | 00:34 | LB136434 |
| | Arsenic | 0.19 | <0.5 | U | 1.00 | P | 07/11/2025 | 00:34 | LB136434 |
| | Barium | 0.73 | <2.5 | U | 5.00 | P | 07/11/2025 | 00:34 | LB136434 |
| | Beryllium | 0.025 | <0.15 | U | 0.30 | P | 07/11/2025 | 00:34 | LB136434 |
| | Cadmium | 0.024 | <0.15 | U | 0.30 | P | 07/11/2025 | 00:34 | LB136434 |
| | Calcium | 11.1 | <50 | U | 100 | P | 07/11/2025 | 00:34 | LB136434 |
| | Chromium | 0.047 | <0.25 | U | 0.50 | P | 07/11/2025 | 00:34 | LB136434 |
| | Cobalt | 0.10 | <0.75 | U | 1.50 | P | 07/11/2025 | 00:34 | LB136434 |
| | Copper | 0.22 | <0.5 | U | 1.00 | P | 07/11/2025 | 00:34 | LB136434 |
| | Iron | 3.99 | <2.5 | U | 5.00 | P | 07/11/2025 | 00:34 | LB136434 |
| | Lead | 0.13 | <0.3 | U | 0.60 | P | 07/11/2025 | 00:34 | LB136434 |
| | Magnesium | 12.0 | <50 | U | 100 | P | 07/11/2025 | 00:34 | LB136434 |
| | Manganese | 0.14 | <0.5 | U | 1.00 | P | 07/11/2025 | 00:34 | LB136434 |
| | Nickel | 0.13 | <1 | U | 2.00 | P | 07/11/2025 | 00:34 | LB136434 |
| | Potassium | 27.7 | <50 | U | 100 | P | 07/11/2025 | 00:34 | LB136434 |
| | Selenium | 0.26 | <0.5 | U | 1.00 | P | 07/11/2025 | 00:34 | LB136434 |
| | Silver | 0.12 | <0.25 | U | 0.50 | P | 07/11/2025 | 00:34 | LB136434 |
| | Sodium | 17.8 | <50 | U | 100 | P | 07/11/2025 | 00:34 | LB136434 |
| | Thallium | 0.23 | <1 | U | 2.00 | P | 07/11/2025 | 00:34 | LB136434 |
| | Vanadium | 0.25 | <1 | U | 2.00 | P | 07/11/2025 | 00:34 | LB136434 |
| | Zinc | 0.11 | <1 | U | 2.00 | P | 07/11/2025 | 00:34 | LB136434 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**ICS Source:** EPA **Instrument ID:** P5

| 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 | 245000 | 250000 | 98 | 216000 | 294000 | 07/09/2025 | 10:31 | LB136407 |
| | Antimony | 23.3 | | | -50 | 50 | 07/09/2025 | 10:31 | LB136407 |
| | Arsenic | 5.46 | | | -20 | 20 | 07/09/2025 | 10:31 | LB136407 |
| | Barium | 8.02 | 6.0 | 134 | -94 | 106 | 07/09/2025 | 10:31 | LB136407 |
| | Beryllium | 1.50 | | | -6 | 6 | 07/09/2025 | 10:31 | LB136407 |
| | Cadmium | -0.43 | 1.0 | 43 | -5 | 7 | 07/09/2025 | 10:31 | LB136407 |
| | Calcium | 242000 | 240000 | 101 | 208000 | 282000 | 07/09/2025 | 10:31 | LB136407 |
| | Chromium | 52.2 | 52.0 | 100 | 42 | 62 | 07/09/2025 | 10:31 | LB136407 |
| | Cobalt | 27.0 | | | -30 | 30 | 07/09/2025 | 10:31 | LB136407 |
| | Copper | -4.74 | 2.0 | 237 | -18 | 22 | 07/09/2025 | 10:31 | LB136407 |
| | Iron | 96800 | 100000 | 97 | 85600 | 116500 | 07/09/2025 | 10:31 | LB136407 |
| | Lead | -5.64 | | | -12 | 12 | 07/09/2025 | 10:31 | LB136407 |
| | Magnesium | 242000 | 260000 | 93 | 216000 | 294000 | 07/09/2025 | 10:31 | LB136407 |
| | Manganese | 3.37 | 7.0 | 48 | -13 | 27 | 07/09/2025 | 10:31 | LB136407 |
| | Nickel | 13.5 | 2.0 | 675 | -38 | 42 | 07/09/2025 | 10:31 | LB136407 |
| | Potassium | 10.6 | | | 0 | 0 | 07/09/2025 | 10:31 | LB136407 |
| | Selenium | -11.2 | | | -20 | 20 | 07/09/2025 | 10:31 | LB136407 |
| | Silver | -2.41 | | | -10 | 10 | 07/09/2025 | 10:31 | LB136407 |
| | Sodium | 119 | | | 0 | 0 | 07/09/2025 | 10:31 | LB136407 |
| | Thallium | 16.7 | | | -40 | 40 | 07/09/2025 | 10:31 | LB136407 |
| | Vanadium | 1.75 | | | -40 | 40 | 07/09/2025 | 10:31 | LB136407 |
| | Zinc | 10.9 | | | -40 | 40 | 07/09/2025 | 10:31 | LB136407 |
| ICSAB01 | Aluminum | 245000 | 250000 | 98 | 209000 | 285000 | 07/09/2025 | 10:35 | LB136407 |
| | Antimony | 621 | 620 | 100 | 525 | 711 | 07/09/2025 | 10:35 | LB136407 |
| | Arsenic | 98.6 | 100 | 99 | 88.4 | 120 | 07/09/2025 | 10:35 | LB136407 |
| | Barium | 529 | 540 | 98 | 437 | 637 | 07/09/2025 | 10:35 | LB136407 |
| | Beryllium | 514 | 500 | 103 | 420 | 570 | 07/09/2025 | 10:35 | LB136407 |
| | Cadmium | 984 | 970 | 101 | 826 | 1120 | 07/09/2025 | 10:35 | LB136407 |
| | Calcium | 241000 | 230000 | 105 | 199000 | 271000 | 07/09/2025 | 10:35 | LB136407 |
| | Chromium | 555 | 540 | 103 | 460 | 624 | 07/09/2025 | 10:35 | LB136407 |
| | Cobalt | 506 | 480 | 105 | 404 | 548 | 07/09/2025 | 10:35 | LB136407 |
| | Copper | 479 | 510 | 94 | 434 | 588 | 07/09/2025 | 10:35 | LB136407 |
| | Iron | 98200 | 99000 | 99 | 84400 | 114500 | 07/09/2025 | 10:35 | LB136407 |
| | Lead | 38.6 | 49.0 | 79 | 37 | 61 | 07/09/2025 | 10:35 | LB136407 |
| | Magnesium | 243000 | 250000 | 97 | 210000 | 286000 | 07/09/2025 | 10:35 | LB136407 |
| | Manganese | 498 | 510 | 98 | 430 | 584 | 07/09/2025 | 10:35 | LB136407 |
| | Nickel | 966 | 950 | 102 | 810 | 1100 | 07/09/2025 | 10:35 | LB136407 |
| | Potassium | 9.40 | | | 0 | 0 | 07/09/2025 | 10:35 | LB136407 |
| | Selenium | 40.2 | 46.0 | 87 | 26 | 66 | 07/09/2025 | 10:35 | LB136407 |
| | Silver | 209 | 200 | 104 | 170 | 232 | 07/09/2025 | 10:35 | LB136407 |
| | Sodium | 100 | | | 0 | 0 | 07/09/2025 | 10:35 | LB136407 |
| | Thallium | 101 | 110 | 92 | 68 | 148 | 07/09/2025 | 10:35 | LB136407 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**ICS Source:** EPA **Instrument ID:** P5

| 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 | 489 | 490 | 100 | 417 | 565 | 07/09/2025 | 10:35 | LB136407 |
| | Zinc | 1030 | 950 | 108 | 809 | 1095 | 07/09/2025 | 10:35 | LB136407 |
| **ICSA01** | Aluminum | 247000 | 250000 | 99 | 216000 | 294000 | 07/10/2025 | 19:11 | LB136434 |
| | Antimony | 21.5 | | | -50 | 50 | 07/10/2025 | 19:11 | LB136434 |
| | Arsenic | 2.10 | | | -20 | 20 | 07/10/2025 | 19:11 | LB136434 |
| | Barium | 5.81 | 6.0 | 97 | -94 | 106 | 07/10/2025 | 19:11 | LB136434 |
| | Beryllium | 1.15 | | | -6 | 6 | 07/10/2025 | 19:11 | LB136434 |
| | Cadmium | -0.49 | 1.0 | 49 | -5 | 7 | 07/10/2025 | 19:11 | LB136434 |
| | Calcium | 242000 | 240000 | 101 | 208000 | 282000 | 07/10/2025 | 19:11 | LB136434 |
| | Chromium | 48.9 | 52.0 | 94 | 42 | 62 | 07/10/2025 | 19:11 | LB136434 |
| | Cobalt | 25.0 | | | -30 | 30 | 07/10/2025 | 19:11 | LB136434 |
| | Copper | -9.61 | 2.0 | 480 | -18 | 22 | 07/10/2025 | 19:11 | LB136434 |
| | Iron | 104000 | 100000 | 104 | 85600 | 116500 | 07/10/2025 | 19:11 | LB136434 |
| | Lead | 0.44 | | | -12 | 12 | 07/10/2025 | 19:11 | LB136434 |
| | Magnesium | 252000 | 260000 | 97 | 216000 | 294000 | 07/10/2025 | 19:11 | LB136434 |
| | Manganese | 2.89 | 7.0 | 41 | -13 | 27 | 07/10/2025 | 19:11 | LB136434 |
| | Nickel | 16.4 | 2.0 | 820 | -38 | 42 | 07/10/2025 | 19:11 | LB136434 |
| | Potassium | 5.28 | | | 0 | 0 | 07/10/2025 | 19:11 | LB136434 |
| | Selenium | 4.66 | | | -20 | 20 | 07/10/2025 | 19:11 | LB136434 |
| | Silver | -1.13 | | | -10 | 10 | 07/10/2025 | 19:11 | LB136434 |
| | Sodium | 100 | | | 0 | 0 | 07/10/2025 | 19:11 | LB136434 |
| | Thallium | 17.8 | | | -40 | 40 | 07/10/2025 | 19:11 | LB136434 |
| | Vanadium | 4.92 | | | -40 | 40 | 07/10/2025 | 19:11 | LB136434 |
| | Zinc | 11.0 | | | -40 | 40 | 07/10/2025 | 19:11 | LB136434 |
| **ICSAB01** | Aluminum | 244000 | 250000 | 98 | 209000 | 285000 | 07/10/2025 | 19:15 | LB136434 |
| | Antimony | 612 | 620 | 99 | 525 | 711 | 07/10/2025 | 19:15 | LB136434 |
| | Arsenic | 92.1 | 100 | 92 | 88.4 | 120 | 07/10/2025 | 19:15 | LB136434 |
| | Barium | 505 | 540 | 94 | 437 | 637 | 07/10/2025 | 19:15 | LB136434 |
| | Beryllium | 505 | 500 | 101 | 420 | 570 | 07/10/2025 | 19:15 | LB136434 |
| | Cadmium | 972 | 970 | 100 | 826 | 1120 | 07/10/2025 | 19:15 | LB136434 |
| | Calcium | 239000 | 230000 | 104 | 199000 | 271000 | 07/10/2025 | 19:15 | LB136434 |
| | Chromium | 548 | 540 | 102 | 460 | 624 | 07/10/2025 | 19:15 | LB136434 |
| | Cobalt | 497 | 480 | 104 | 404 | 548 | 07/10/2025 | 19:15 | LB136434 |
| | Copper | 468 | 510 | 92 | 434 | 588 | 07/10/2025 | 19:15 | LB136434 |
| | Iron | 98700 | 99000 | 100 | 84400 | 114500 | 07/10/2025 | 19:15 | LB136434 |
| | Lead | 43.4 | 49.0 | 89 | 37 | 61 | 07/10/2025 | 19:15 | LB136434 |
| | Magnesium | 249000 | 250000 | 100 | 210000 | 286000 | 07/10/2025 | 19:15 | LB136434 |
| | Manganese | 491 | 510 | 96 | 430 | 584 | 07/10/2025 | 19:15 | LB136434 |
| | Nickel | 971 | 950 | 102 | 810 | 1100 | 07/10/2025 | 19:15 | LB136434 |
| | Potassium | 0.96 | | | 0 | 0 | 07/10/2025 | 19:15 | LB136434 |
| | Selenium | 52.3 | 46.0 | 114 | 26 | 66 | 07/10/2025 | 19:15 | LB136434 |
| | Silver | 217 | 200 | 108 | 170 | 232 | 07/10/2025 | 19:15 | LB136434 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**ICS Source:** EPA **Instrument ID:** P5

| 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** | Sodium | 88.1 | | | 0 | 0 | 07/10/2025 | 19:15 | LB136434 |
| | Thallium | 99.2 | 110 | 90 | 68 | 148 | 07/10/2025 | 19:15 | LB136434 |
| | Vanadium | 488 | 490 | 100 | 417 | 565 | 07/10/2025 | 19:15 | LB136434 |
| | Zinc | 983 | 950 | 104 | 809 | 1095 | 07/10/2025 | 19:15 | LB136434 |
| **ICSA01** | Aluminum | 243000 | 250000 | 97 | 216000 | 294000 | 07/17/2025 | 14:46 | LB136534 |
| | Antimony | 20.2 | | | -50 | 50 | 07/17/2025 | 14:46 | LB136534 |
| | Arsenic | -5.59 | | | -20 | 20 | 07/17/2025 | 14:46 | LB136534 |
| | Barium | 5.91 | 6.0 | 98 | -94 | 106 | 07/17/2025 | 14:46 | LB136534 |
| | Beryllium | 1.12 | | | -6 | 6 | 07/17/2025 | 14:46 | LB136534 |
| | Cadmium | -0.95 | 1.0 | 95 | -5 | 7 | 07/17/2025 | 14:46 | LB136534 |
| | Calcium | 232000 | 240000 | 97 | 208000 | 282000 | 07/17/2025 | 14:46 | LB136534 |
| | Chromium | 48.4 | 52.0 | 93 | 42 | 62 | 07/17/2025 | 14:46 | LB136534 |
| | Cobalt | 21.5 | | | -30 | 30 | 07/17/2025 | 14:46 | LB136534 |
| | Copper | -6.18 | 2.0 | 309 | -18 | 22 | 07/17/2025 | 14:46 | LB136534 |
| | Iron | 89400 | 100000 | 89 | 85600 | 116500 | 07/17/2025 | 14:46 | LB136534 |
| | Lead | 1.20 | | | -12 | 12 | 07/17/2025 | 14:46 | LB136534 |
| | Magnesium | 242000 | 260000 | 93 | 216000 | 294000 | 07/17/2025 | 14:46 | LB136534 |
| | Manganese | 3.52 | 7.0 | 50 | -13 | 27 | 07/17/2025 | 14:46 | LB136534 |
| | Nickel | 1.33 | 2.0 | 66 | -38 | 42 | 07/17/2025 | 14:46 | LB136534 |
| | Potassium | 3.55 | | | 0 | 0 | 07/17/2025 | 14:46 | LB136534 |
| | Selenium | -9.33 | | | -20 | 20 | 07/17/2025 | 14:46 | LB136534 |
| | Silver | -1.63 | | | -10 | 10 | 07/17/2025 | 14:46 | LB136534 |
| | Sodium | 127 | | | 0 | 0 | 07/17/2025 | 14:46 | LB136534 |
| | Thallium | 2.74 | | | -40 | 40 | 07/17/2025 | 14:46 | LB136534 |
| | Vanadium | 9.54 | | | -40 | 40 | 07/17/2025 | 14:46 | LB136534 |
| | Zinc | 11.6 | | | -40 | 40 | 07/17/2025 | 14:46 | LB136534 |
| **ICSAB01** | Aluminum | 243000 | 250000 | 97 | 209000 | 285000 | 07/17/2025 | 14:51 | LB136534 |
| | Antimony | 586 | 620 | 94 | 525 | 711 | 07/17/2025 | 14:51 | LB136534 |
| | Arsenic | 89.5 | 100 | 90 | 88.4 | 120 | 07/17/2025 | 14:51 | LB136534 |
| | Barium | 490 | 540 | 91 | 437 | 637 | 07/17/2025 | 14:51 | LB136534 |
| | Beryllium | 480 | 500 | 96 | 420 | 570 | 07/17/2025 | 14:51 | LB136534 |
| | Cadmium | 954 | 970 | 98 | 826 | 1120 | 07/17/2025 | 14:51 | LB136534 |
| | Calcium | 233000 | 230000 | 101 | 199000 | 271000 | 07/17/2025 | 14:51 | LB136534 |
| | Chromium | 528 | 540 | 98 | 460 | 624 | 07/17/2025 | 14:51 | LB136534 |
| | Cobalt | 493 | 480 | 103 | 404 | 548 | 07/17/2025 | 14:51 | LB136534 |
| | Copper | 455 | 510 | 89 | 434 | 588 | 07/17/2025 | 14:51 | LB136534 |
| | Iron | 90300 | 99000 | 91 | 84400 | 114500 | 07/17/2025 | 14:51 | LB136534 |
| | Lead | 46.7 | 49.0 | 95 | 37 | 61 | 07/17/2025 | 14:51 | LB136534 |
| | Magnesium | 242000 | 250000 | 97 | 210000 | 286000 | 07/17/2025 | 14:51 | LB136534 |
| | Manganese | 475 | 510 | 93 | 430 | 584 | 07/17/2025 | 14:51 | LB136534 |
| | Nickel | 941 | 950 | 99 | 810 | 1100 | 07/17/2025 | 14:51 | LB136534 |
| | Potassium | 3.18 | | | 0 | 0 | 07/17/2025 | 14:51 | LB136534 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**ICS Source:** EPA **Instrument ID:** P5

| 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 | Selenium | 42.8 | 46.0 | 93 | 26 | 66 | 07/17/2025 | 14:51 | LB136534 |
| | Silver | 204 | 200 | 102 | 170 | 232 | 07/17/2025 | 14:51 | LB136534 |
| | Sodium | 145 | | | 0 | 0 | 07/17/2025 | 14:51 | LB136534 |
| | Thallium | 91.9 | 110 | 84 | 68 | 148 | 07/17/2025 | 14:51 | LB136534 |
| | Vanadium | 470 | 490 | 96 | 417 | 565 | 07/17/2025 | 14:51 | LB136534 |
| | Zinc | 999 | 950 | 105 | 809 | 1095 | 07/17/2025 | 14:51 | LB136534 |

# METAL QC DATA

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** CDM Smith **level:** low **sdg no.:** Q2514

**contract:** CAMP02 **lab code:** ACE

**matrix:** Solid **sample id:** Q2487-16 **client id:** G1(6-12)MS

**Percent Solids for Sample:** 93.3 **Spiked ID:** Q2487-16MS **Percent Solids for Spike Sample:** 93.3

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 80 - 120 | 0.49 | | 0.23 | | 0.26 | 98 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** CDM Smith **level:** low **sdg no.:** Q2514

**contract:** CAMP02 **lab code:** ACE

**matrix:** Solid **sample id:** Q2487-16 **client id:** G1(6-12)MSD

**Percent Solids for Sample:** 93.3 **Spiked ID:** Q2487-16MSD **Percent Solids for Spike Sample:** 93.3

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 80 - 120 | 0.48 | | 0.23 | | 0.26 | 96 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** CDM Smith **level:** low **sdg no.:** Q2514

**contract:** CAMP02 **lab code:** ACE

**matrix:** Solid **sample id:** Q2515-01 **client id:** WC-1MS

**Percent Solids for Sample:** 87.5 **Spiked ID:** Q2515-01MS **Percent Solids for Spike Sample:** 87.5

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 75 - 125 | 10900 | | 10000 | | 100 | 856 | | P |
| Antimony | mg/Kg | 75 - 125 | 11.3 | | 1.79 | J | 41.2 | 23 | N | P |
| Arsenic | mg/Kg | 75 - 125 | 39.8 | | 1.42 | | 41.2 | 93 | | P |
| Barium | mg/Kg | 75 - 125 | 62.0 | | 46.6 | | 10.3 | 150 | | P |
| Beryllium | mg/Kg | 75 - 125 | 8.21 | | 0.55 | | 10.3 | 74 | N | P |
| Cadmium | mg/Kg | 75 - 125 | 10.2 | | 0.30 | U | 10.3 | 99 | | P |
| Calcium | mg/Kg | 75 - 125 | 1950 | | 2090 | | 51.5 | -272 | | P |
| Chromium | mg/Kg | 75 - 125 | 42.9 | | 27.0 | | 20.6 | 77 | | P |
| Cobalt | mg/Kg | 75 - 125 | 26.6 | | 20.1 | | 10.3 | 63 | N | P |
| Copper | mg/Kg | 75 - 125 | 28.0 | | 19.4 | | 15.4 | 56 | N | P |
| Iron | mg/Kg | 75 - 125 | 15800 | | 18900 | | 150 | -1957 | | P |
| Lead | mg/Kg | 75 - 125 | 57.2 | | 7.18 | | 51.5 | 97 | | P |
| Magnesium | mg/Kg | 75 - 125 | 3230 | | 3810 | | 100 | -560 | | P |
| Manganese | mg/Kg | 75 - 125 | 812 | | 693 | | 10.3 | 1156 | | P |
| Nickel | mg/Kg | 75 - 125 | 43.1 | | 21.0 | | 25.7 | 86 | | P |
| Potassium | mg/Kg | 75 - 125 | 657 | | 245 | | 510 | 80 | | P |
| Selenium | mg/Kg | 75 - 125 | 73.3 | | 4.97 | | 100 | 66 | N | P |
| Silver | mg/Kg | 75 - 125 | 2.39 | | 0.50 | U | 3.9 | 62 | N | P |
| Sodium | mg/Kg | 75 - 125 | 266 | | 203 | | 150 | 41 | N | P |
| Thallium | mg/Kg | 75 - 125 | 94.8 | | 2.01 | U | 100 | 92 | | P |
| Vanadium | mg/Kg | 75 - 125 | 51.6 | | 57.6 | | 15.4 | -39 | N | P |
| Zinc | mg/Kg | 75 - 125 | 40.8 | | 31.9 | | 10.3 | 87 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** CDM Smith **level:** low **sdg no.:** Q2514

**contract:** CAMP02 **lab code:** ACE

**matrix:** Solid **sample id:** Q2515-01 **client id:** WC-1MSD

**Percent Solids for Sample:** 87.5 **Spiked ID:** Q2515-01MSD **Percent Solids for Spike Sample:** 87.5

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 75 - 125 | 10900 | | 10000 | | 110 | 818 | | P |
| Antimony | mg/Kg | 75 - 125 | 12.9 | | 1.79 | J | 42.5 | 26 | N | P |
| Arsenic | mg/Kg | 75 - 125 | 42.5 | | 1.42 | | 42.5 | 97 | | P |
| Barium | mg/Kg | 75 - 125 | 51.3 | | 46.6 | | 10.6 | 44 | | P |
| Beryllium | mg/Kg | 75 - 125 | 8.67 | | 0.55 | | 10.6 | 76 | | P |
| Cadmium | mg/Kg | 75 - 125 | 10.5 | | 0.30 | U | 10.6 | 99 | | P |
| Calcium | mg/Kg | 75 - 125 | 1920 | | 2090 | | 53.2 | -316 | | P |
| Chromium | mg/Kg | 75 - 125 | 44.6 | | 27.0 | | 21.3 | 83 | | P |
| Cobalt | mg/Kg | 75 - 125 | 27.6 | | 20.1 | | 10.6 | 70 | N | P |
| Copper | mg/Kg | 75 - 125 | 30.3 | | 19.4 | | 15.9 | 68 | N | P |
| Iron | mg/Kg | 75 - 125 | 18900 | | 18900 | | 160 | 53 | | P |
| Lead | mg/Kg | 75 - 125 | 60.7 | | 7.18 | | 53.2 | 101 | | P |
| Magnesium | mg/Kg | 75 - 125 | 3380 | | 3810 | | 110 | -398 | | P |
| Manganese | mg/Kg | 75 - 125 | 533 | | 693 | | 10.6 | -1507 | | P |
| Nickel | mg/Kg | 75 - 125 | 44.5 | | 21.0 | | 26.6 | 89 | | P |
| Potassium | mg/Kg | 75 - 125 | 674 | | 245 | | 530 | 81 | | P |
| Selenium | mg/Kg | 75 - 125 | 76.8 | | 4.97 | | 110 | 68 | N | P |
| Silver | mg/Kg | 75 - 125 | 1.99 | | 0.50 | U | 4.0 | 50 | N | P |
| Sodium | mg/Kg | 75 - 125 | 295 | | 203 | | 160 | 58 | N | P |
| Thallium | mg/Kg | 75 - 125 | 97.4 | | 2.01 | U | 110 | 92 | | P |
| Vanadium | mg/Kg | 75 - 125 | 67.0 | | 57.6 | | 15.9 | 59 | N | P |
| Zinc | mg/Kg | 75 - 125 | 42.1 | | 31.9 | | 10.6 | 96 | | P |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Matrix:** Solid **Level:** LOW **Client ID:** WC-1A

**Sample ID:** Q2515-01 **Spiked ID:** Q2515-01A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | mg/Kg | 75 - 125 | 30.9 | | 1.79 | J | 40.1 | 73 | N | P |
| Beryllium | mg/Kg | 75 - 125 | 8.11 | | 0.55 | | 10.0 | 76 | | P |
| Cobalt | mg/Kg | 75 - 125 | 29.6 | | 20.1 | | 10.0 | 95 | | P |
| Copper | mg/Kg | 75 - 125 | 30.3 | | 19.4 | | 15.0 | 73 | N | P |
| Selenium | mg/Kg | 75 - 125 | 75.9 | | 4.97 | | 100 | 71 | N | P |
| Silver | mg/Kg | 75 - 125 | 1.61 | | 0.50 | U | 3.80 | 42 | N | P |
| Sodium | mg/Kg | 75 - 125 | 304 | | 203 | | 150 | 68 | N | P |
| Vanadium | mg/Kg | 75 - 125 | 67.4 | | 57.6 | | 15.0 | 65 | N | P |

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# Metals

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** CDM Smith **Level:** LOW **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Matrix:** Solid **Sample ID:** Q2487-16 **Client ID:** G1(6-12)DUP

**Percent Solids for Sample:** 93.3 **Duplicate ID** Q2487-16DUP **Percent Solids for Spike Sample:** 93.3

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 20 | 0.23 | | 0.24 | | 4 | | 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

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** CDM Smith **Level:** LOW **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Matrix:** Solid **Sample ID:** Q2487-16MS **Client ID:** G1(6-12)MSD

**Percent Solids for Sample:** 93.3 **Duplicate ID** Q2487-16MSD **Percent Solids for Spike Sample:** 93.3

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 20 | 0.49 | | 0.48 | | 2 | | 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

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** CDM Smith **Level:** LOW **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Matrix:** Solid **Sample ID:** Q2515-01 **Client ID:** WC-1DUP

**Percent Solids for Sample:** 87.5 **Duplicate ID** Q2515-01DUP **Percent Solids for Spike Sample:** 87.5

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 20 | 10000 | | 9470 | | 5 | | P |
| Antimony | mg/Kg | 20 | 1.79 | J | 1.71 | J | 5 | | P |
| Arsenic | mg/Kg | 20 | 1.42 | | 1.66 | | 16 | | P |
| Barium | mg/Kg | 20 | 46.6 | | 41.2 | | 12 | | P |
| Beryllium | mg/Kg | 20 | 0.55 | | 0.55 | | 1 | | P |
| Cadmium | mg/Kg | 20 | 0.30 | U | 0.29 | U | | | P |
| Calcium | mg/Kg | 20 | 2090 | | 2040 | | 2 | | P |
| Chromium | mg/Kg | 20 | 27.0 | | 26.6 | | 1 | | P |
| Cobalt | mg/Kg | 20 | 20.1 | | 19.6 | | 3 | | P |
| Copper | mg/Kg | 20 | 19.4 | | 18.8 | | 3 | | P |
| Iron | mg/Kg | 20 | 18900 | | 18800 | | 1 | | P |
| Lead | mg/Kg | 20 | 7.18 | | 10.0 | | 33 | * | P |
| Magnesium | mg/Kg | 20 | 3810 | | 3930 | | 3 | | P |
| Manganese | mg/Kg | 20 | 693 | | 600 | | 14 | | P |
| Nickel | mg/Kg | 20 | 21.0 | | 20.7 | | 1 | | P |
| Potassium | mg/Kg | 20 | 245 | | 230 | | 6 | | P |
| Selenium | mg/Kg | 20 | 4.97 | | 5.08 | | 2 | | P |
| Silver | mg/Kg | 20 | 0.50 | U | 0.48 | U | | | P |
| Sodium | mg/Kg | 20 | 203 | | 194 | | 5 | | P |
| Thallium | mg/Kg | 20 | 2.01 | U | 1.91 | U | | | P |
| Vanadium | mg/Kg | 20 | 57.6 | | 57.5 | | 0 | | P |
| Zinc | mg/Kg | 20 | 31.9 | | 32.3 | | 1 | | 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

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** CDM Smith **Level:** LOW **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Matrix:** Solid **Sample ID:** Q2515-01MS **Client ID:** WC-1MSD

**Percent Solids for Sample:** 87.5 **Duplicate ID** Q2515-01MSD **Percent Solids for Spike Sample:** 87.5

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 20 | 10900 | | 10900 | | 0 | | P |
| Antimony | mg/Kg | 20 | 11.3 | | 12.9 | | 13 | | P |
| Arsenic | mg/Kg | 20 | 39.8 | | 42.5 | | 7 | | P |
| Barium | mg/Kg | 20 | 62.0 | | 51.3 | | 19 | | P |
| Beryllium | mg/Kg | 20 | 8.21 | | 8.67 | | 5 | | P |
| Cadmium | mg/Kg | 20 | 10.2 | | 10.5 | | 4 | | P |
| Calcium | mg/Kg | 20 | 1950 | | 1920 | | 2 | | P |
| Chromium | mg/Kg | 20 | 42.9 | | 44.6 | | 4 | | P |
| Cobalt | mg/Kg | 20 | 26.6 | | 27.6 | | 4 | | P |
| Copper | mg/Kg | 20 | 28.0 | | 30.3 | | 8 | | P |
| Iron | mg/Kg | 20 | 15800 | | 18900 | | 18 | | P |
| Lead | mg/Kg | 20 | 57.2 | | 60.7 | | 6 | | P |
| Magnesium | mg/Kg | 20 | 3230 | | 3380 | | 5 | | P |
| Manganese | mg/Kg | 20 | 812 | | 533 | | 41 | * | P |
| Nickel | mg/Kg | 20 | 43.1 | | 44.5 | | 3 | | P |
| Potassium | mg/Kg | 20 | 657 | | 674 | | 3 | | P |
| Selenium | mg/Kg | 20 | 73.3 | | 76.8 | | 5 | | P |
| Silver | mg/Kg | 20 | 2.39 | | 1.99 | | 18 | | P |
| Sodium | mg/Kg | 20 | 266 | | 295 | | 10 | | P |
| Thallium | mg/Kg | 20 | 94.8 | | 97.4 | | 3 | | P |
| Vanadium | mg/Kg | 20 | 51.6 | | 67.0 | | 26 | * | P |
| Zinc | mg/Kg | 20 | 40.8 | | 42.1 | | 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



### LABORATORY CONTROL SAMPLE SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB168740BS | | | | | | | |
| Aluminum | mg/Kg | 100 | 98.9 | | 99 | 80 - 120 | P |
| Antimony | mg/Kg | 40.0 | 40.0 | | 100 | 80 - 120 | P |
| Arsenic | mg/Kg | 40.0 | 35.6 | | 89 | 80 - 120 | P |
| Barium | mg/Kg | 10.0 | 9.99 | | 100 | 80 - 120 | P |
| Beryllium | mg/Kg | 10.0 | 10.7 | | 107 | 80 - 120 | P |
| Cadmium | mg/Kg | 10.0 | 9.41 | | 94 | 80 - 120 | P |
| Calcium | mg/Kg | 50.0 | 51.1 | J | 102 | 80 - 120 | P |
| Chromium | mg/Kg | 20.0 | 20.3 | | 102 | 80 - 120 | P |
| Cobalt | mg/Kg | 10.0 | 9.53 | | 95 | 80 - 120 | P |
| Copper | mg/Kg | 15.0 | 16.3 | | 109 | 80 - 120 | P |
| Iron | mg/Kg | 150 | 170 | | 113 | 80 - 120 | P |
| Lead | mg/Kg | 50.0 | 47.1 | | 94 | 80 - 120 | P |
| Magnesium | mg/Kg | 100 | 101 | | 101 | 80 - 120 | P |
| Manganese | mg/Kg | 10.0 | 10.4 | | 104 | 80 - 120 | P |
| Nickel | mg/Kg | 25.0 | 24.0 | | 96 | 80 - 120 | P |
| Potassium | mg/Kg | 500 | 477 | | 95 | 80 - 120 | P |
| Selenium | mg/Kg | 100 | 98.5 | | 98 | 80 - 120 | P |
| Silver | mg/Kg | 3.8 | 3.56 | | 94 | 80 - 120 | P |
| Sodium | mg/Kg | 150 | 157 | | 105 | 80 - 120 | P |
| Thallium | mg/Kg | 100 | 99.9 | | 100 | 80 - 120 | P |
| Vanadium | mg/Kg | 15.0 | 14.8 | | 99 | 80 - 120 | P |
| Zinc | mg/Kg | 10.0 | 10.3 | | 103 | 80 - 120 | P |

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## Metals



### LABORATORY CONTROL SAMPLE SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB168892BS | | | | | | | |
| Mercury | mg/Kg | 0.25 | 0.24 | | 98 | 80 - 120 | CV |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

G1(6-12)L

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **Lb No.:** lb136499 **Lab Sample ID :** Q2487-16L **SDG No.:** Q2514

**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 | 0.23 | | 0.26 | | 14 | | CV |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

WC-1L

**Lab Name:** Alliance **Contract:** CAMP02

**Lab Code:** ACE **Lb No.:** lb136534 **Lab Sample ID :** Q2515-01L **SDG No.:** Q2514

**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 | 10000 | | 11800 | | 17 | | P |
| Antimony | 1.79 | J | 1.98 | J | 11 | | P |
| Arsenic | 1.42 | | 3.05 | J | 115 | | P |
| Barium | 46.6 | | 55.3 | | 19 | | P |
| Beryllium | 0.55 | | 0.64 | J | 17 | | P |
| Cadmium | 0.30 | U | 1.50 | U | | | P |
| Calcium | 2090 | | 2520 | | 20 | | P |
| Chromium | 27.0 | | 31.6 | | 17 | | P |
| Cobalt | 20.1 | | 19.2 | | 5 | | P |
| Copper | 19.4 | | 24.6 | | 27 | | P |
| Iron | 18900 | | 27800 | | 47 | | P |
| Lead | 7.18 | | 8.07 | | 12 | | P |
| Magnesium | 3810 | | 4610 | | 21 | | P |
| Manganese | 693 | | 842 | | 21 | | P |
| Nickel | 21.0 | | 19.6 | | 6 | | P |
| Potassium | 245 | | 241 | J | 2 | | P |
| Selenium | 4.97 | | 7.51 | | 51 | | P |
| Silver | 0.50 | U | 2.51 | U | | | P |
| Sodium | 203 | | 248 | J | 22 | | P |
| Thallium | 2.01 | U | 10.0 | U | | | P |
| Vanadium | 57.6 | | 66.0 | | 14 | | P |
| Zinc | 31.9 | | 38.8 | | 22 | | P |

# METAL PREPARATION & INSTRUMENT DATA

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Al | Ca | Fe | Mg | Ag |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 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 | -0.0000720 | 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 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 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 | 0.0000000 | 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 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: As | Ba | Be | Cd | Co |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| 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 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 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 | 0.0000000 | 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 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Cr | Cu | K | Mn | Mo |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000000 | 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 | 0.0001020 |
| 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 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 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 | 0.0000000 | 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 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Na | Ni | Pb | Sb | Se |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000000 | 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 | 0.0000000 |
| 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 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 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 | 0.0000000 | 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 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Sn | Ti | Tl | V | Zn |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0004810 |
| 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 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 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 | 0.0000000 | 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 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

# METAL PREPARATION & ANALYICAL SUMMARY

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE **Method:**

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB168740** | | | | | | |
| PB168740BL | PB168740BL | MB | SOLID | 07/07/2025 | 2.00 | 100.0 | 100.00 |
| PB168740BS | PB168740BS | LCS | SOLID | 07/07/2025 | 2.00 | 100.0 | 100.00 |
| Q2514-01 | TP-92 | SAM | SOLID | 07/07/2025 | 2.29 | 100.0 | 87.40 |
| Q2514-02 | TP-93 | SAM | SOLID | 07/07/2025 | 2.27 | 100.0 | 87.70 |
| Q2514-03 | TP-94 | SAM | SOLID | 07/07/2025 | 2.37 | 100.0 | 88.10 |
| Q2514-04 | TP-96 | SAM | SOLID | 07/07/2025 | 2.36 | 100.0 | 85.80 |
| Q2514-05 | TP-97 | SAM | SOLID | 07/07/2025 | 2.45 | 100.0 | 85.00 |
| Q2514-06 | TP-103 | SAM | SOLID | 07/07/2025 | 2.18 | 100.0 | 86.50 |
| Q2514-07 | TP-36 | SAM | SOLID | 07/07/2025 | 2.37 | 100.0 | 90.30 |
| Q2514-08 | TP-78 | SAM | SOLID | 07/07/2025 | 2.42 | 100.0 | 86.30 |
| Q2514-09 | TP-81 | SAM | SOLID | 07/07/2025 | 2.17 | 100.0 | 86.30 |
| Q2514-10 | TP-90 | SAM | SOLID | 07/07/2025 | 2.21 | 100.0 | 91.60 |
| Q2515-01DUP | WC-1DUP | DUP | SOLID | 07/07/2025 | 2.39 | 100.0 | 87.50 |
| Q2515-01MS | WC-1MS | MS | SOLID | 07/07/2025 | 2.22 | 100.0 | 87.50 |
| Q2515-01MSD | WC-1MSD | MSD | SOLID | 07/07/2025 | 2.15 | 100.0 | 87.50 |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** CDM Smith **SDG No.:** Q2514

**Contract:** CAMP02 **Lab Code:** ACE **Method:**

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB168892** | | | | | | |
| PB168892BL | PB168892BL | MB | SOLID | 07/15/2025 | 0.55 | 35.0 | 100.00 |
| PB168892BS | PB168892BS | LCS | SOLID | 07/15/2025 | 0.57 | 35.0 | 100.00 |
| Q2487-16DUP | G1(6-12)DUP | DUP | SOLID | 07/15/2025 | 0.59 | 35.0 | 93.30 |
| Q2487-16MS | G1(6-12)MS | MS | SOLID | 07/15/2025 | 0.58 | 35.0 | 93.30 |
| Q2487-16MSD | G1(6-12)MSD | MSD | SOLID | 07/15/2025 | 0.57 | 35.0 | 93.30 |
| Q2514-01 | TP-92 | SAM | SOLID | 07/15/2025 | 0.56 | 35.0 | 87.40 |
| Q2514-02 | TP-93 | SAM | SOLID | 07/15/2025 | 0.57 | 35.0 | 87.70 |
| Q2514-03 | TP-94 | SAM | SOLID | 07/15/2025 | 0.56 | 35.0 | 88.10 |
| Q2514-04 | TP-96 | SAM | SOLID | 07/15/2025 | 0.56 | 35.0 | 85.80 |
| Q2514-05 | TP-97 | SAM | SOLID | 07/15/2025 | 0.55 | 35.0 | 85.00 |
| Q2514-06 | TP-103 | SAM | SOLID | 07/15/2025 | 0.58 | 35.0 | 86.50 |
| Q2514-07 | TP-36 | SAM | SOLID | 07/15/2025 | 0.51 | 35.0 | 90.30 |
| Q2514-08 | TP-78 | SAM | SOLID | 07/15/2025 | 0.54 | 35.0 | 86.30 |
| Q2514-09 | TP-81 | SAM | SOLID | 07/15/2025 | 0.52 | 35.0 | 86.30 |
| Q2514-10 | TP-90 | SAM | SOLID | 07/15/2025 | 0.56 | 35.0 | 91.60 |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** CDM Smith **Contract:** CAMP02

**Lab code:** ACE **Sdg no.:** Q2514

**Instrument id number:** **Method:** **Run number:** LB136407

**Start date:** 07/09/2025 **End date:** 07/09/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 0939 | 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 | 0944 | 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 | 0948 | 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 | 0952 | 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 | 0957 | 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 | 1001 | 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 | 1005 | 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 | 1017 | 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 | 1022 | 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 | 1026 | 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 | 1031 | 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 | 1035 | 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 | 1048 | 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 | 1057 | 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 | 1147 | 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 | 1156 | 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 | 1254 | 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 | 1258 | 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 | 1405 | 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 | 1428 | 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 | 1527 | 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 | 1533 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV06 | CCV06 | 1 | 1639 | 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 | 1643 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV07 | CCV07 | 1 | 1750 | 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 | 1754 | 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 | 1854 | 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 | 1858 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2514-01 | TP-92 | 1 | 1934 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2514-02 | TP-93 | 1 | 1939 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2514-03 | TP-94 | 1 | 1943 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV09 | CCV09 | 1 | 1948 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB09 | CCB09 | 1 | 1952 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2514-04 | TP-96 | 1 | 1956 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2514-05 | TP-97 | 1 | 2001 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2514-06 | TP-103 | 1 | 2005 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2514-07 | TP-36 | 1 | 2010 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2514-08 | TP-78 | 1 | 2014 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2514-09 | TP-81 | 1 | 2019 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2514-10 | TP-90 | 1 | 2023 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV10 | CCV10 | 1 | 2041 | 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**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** CDM Smith **Contract:** CAMP02

**Lab code:** ACE **Sdg no.:** Q2514

**Instrument id number:** **Method:** **Run number:** LB136407

**Start date:** 07/09/2025 **End date:** 07/09/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| CCB10 | CCB10 | 1 | 2045 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV11 | CCV11 | 1 | 2112 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB11 | CCB11 | 1 | 2116 | 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**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** CDM Smith **Contract:** CAMP02

**Lab code:** ACE **Sdg no.:** Q2514

**Instrument id number:** **Method:** **Run number:** LB136434

**Start date:** 07/10/2025 **End date:** 07/11/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1646 | 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 | 1650 | 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 | 1655 | 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 | 1659 | 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 | 1703 | 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 | 1707 | 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 | 1839 | 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 | 1851 | 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 | 1855 | 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 | 1901 | 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 | 1911 | 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 | 1915 | 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 | 1943 | 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 | 1954 | 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 | 2059 | 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 | 2104 | 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 | 2232 | 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 | 2236 | 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 | 2329 | 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 | 2353 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB168740BL | PB168740BL | 1 | 0034 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB168740BS | PB168740BS | 1 | 0038 | 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 | 0047 | 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 | 0051 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV06 | CCV06 | 1 | 0147 | 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 | 0223 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV07 | CCV07 | 1 | 0317 | 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 | 0326 | 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 | 0418 | 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 | 0427 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV09 | CCV09 | 1 | 0519 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB09 | CCB09 | 1 | 0524 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV10 | CCV10 | 1 | 0616 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB10 | CCB10 | 1 | 0621 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV11 | CCV11 | 1 | 0643 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB11 | CCB11 | 1 | 0647 | 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**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** CDM Smith **Contract:** CAMP02

**Lab code:** ACE **Sdg no.:** Q2514

**Instrument id number:** **Method:** **Run number:** LB136499

**Start date:** 07/16/2025 **End date:** 07/16/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1142 | HG |
| S0.2 | S0.2 | 1 | 1144 | HG |
| S2.5 | S2.5 | 1 | 1146 | HG |
| S5 | S5 | 1 | 1149 | HG |
| S7.5 | S7.5 | 1 | 1151 | HG |
| S10 | S10 | 1 | 1153 | HG |
| ICV29 | ICV29 | 1 | 1156 | HG |
| ICB29 | ICB29 | 1 | 1159 | HG |
| CCV09 | CCV09 | 1 | 1201 | HG |
| CCB09 | CCB09 | 1 | 1203 | HG |
| CRA | CRA | 1 | 1206 | HG |
| CCV10 | CCV10 | 1 | 1238 | HG |
| CCB10 | CCB10 | 1 | 1243 | HG |
| PB168892BL | PB168892BL | 1 | 1304 | HG |
| PB168892BS | PB168892BS | 1 | 1309 | HG |
| CCV11 | CCV11 | 1 | 1312 | HG |
| CCB11 | CCB11 | 1 | 1314 | HG |
| Q2487-16DUP | G1(6-12)DUP | 1 | 1335 | HG |
| Q2487-16MS | G1(6-12)MS | 1 | 1337 | HG |
| CCV12 | CCV12 | 1 | 1340 | HG |
| CCB12 | CCB12 | 1 | 1342 | HG |
| Q2487-16MSD | G1(6-12)MSD | 1 | 1345 | HG |
| Q2514-01 | TP-92 | 1 | 1347 | HG |
| Q2514-02 | TP-93 | 1 | 1349 | HG |
| Q2514-03 | TP-94 | 1 | 1351 | HG |
| Q2514-04 | TP-96 | 1 | 1354 | HG |
| Q2514-05 | TP-97 | 1 | 1356 | HG |
| Q2514-06 | TP-103 | 1 | 1358 | HG |
| Q2514-07 | TP-36 | 1 | 1401 | HG |
| Q2514-08 | TP-78 | 1 | 1403 | HG |
| Q2514-09 | TP-81 | 1 | 1405 | HG |
| CCV13 | CCV13 | 1 | 1407 | HG |
| CCB13 | CCB13 | 1 | 1410 | HG |
| Q2514-10 | TP-90 | 1 | 1412 | HG |
| Q2487-16L | G1(6-12)L | 5 | 1419 | HG |
| CCV14 | CCV14 | 1 | 1425 | HG |
| CCB14 | CCB14 | 1 | 1428 | HG |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** CDM Smith **Contract:** CAMP02

**Lab code:** ACE **Sdg no.:** Q2514

**Instrument id number:** **Method:** **Run number:** LB136534

**Start date:** 07/17/2025 **End date:** 07/17/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1323 | 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 | 1328 | 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 | 1333 | 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 | 1338 | 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 | 1343 | 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 | 1348 | 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 | 1414 | 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 | 1424 | 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 | 1429 | 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 | 1439 | 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 | 1446 | 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 | 1451 | 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 | 1456 | 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 | 1501 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2515-01DUP | WC-1DUP | 1 | 1514 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2515-01MS | WC-1MS | 1 | 1524 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2515-01MSD | WC-1MSD | 1 | 1529 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2515-01A | WC-1A | 1 | 1534 | Ag,Be,Co,Cu,Na,Sb,Se,V |
| Q2515-01L | WC-1L | 5 | 1539 | 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 | 1544 | 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 | 1549 | 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 | 1718 | 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 | 1736 | 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 | 1845 | 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 | 1850 | 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 | 2011 | 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 | 2016 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV06 | CCV06 | 1 | 2046 | 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 | 2051 | 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. Q2514
QUOTE NO.
COC Number 2047526

13
13.1

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP 08837
ATTENTION: MARCIE ENCINAS
PHONE: 7325904679 FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER NJ
PROJECT MANAGER: FELIPE CONTRERAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 7325904679 FAX:

## CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

## DATA TURNAROUND INFORMATION

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

## DATA DELIVERABLE INFORMATION

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

## ANALYSIS

1: TCL VOC
2: TCL SVOC
3: PCBs
4: TAL METALS
5: PESTICIDES
6: HERBICIDES
7: DRO/GRO
8:
9:

## PRESERVATIVES

## COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | TP-92 | S | | X | 7/2/25 | 0800 | 6 | X | X | X | X | X | X | X | | | E |
| 2. | TP-93 | S | | X | 7/2/25 | 0830 | 6 | X | X | X | X | X | X | X | | | E |
| 3. | TP-94 | S | | X | 7/2/25 | 1035 | 6 | X | X | X | X | X | X | X | | | E |
| 4. | TP-96 | S | | X | 7/2/25 | 1125 | 6 | X | X | X | X | X | X | X | | | E |
| 5. | TP-97 | S | | X | 7/2/25 | 1215 | 6 | X | X | X | X | X | X | X | | | E |
| 6. | TP-103 | S | | X | 7/2/25 | 1345 | 6 | X | X | X | X | X | X | X | | | E |
| 7. | TP-3C | S | | X | 7/3/25 | 0820 | 6 | X | X | X | X | X | X | X | | | E |
| 8. | TP-78 | S | | X | 7/3/25 | 0855 | 6 | X | X | X | X | X | X | X | | | E |
| 9. | TP-81 | S | | X | 7/3/25 | 1000 | 6 | X | X | X | X | X | X | X | | | E |
| 10. | TP-90 | S | | X | 7/3/25 | 1250 | 6 | X | X | X | X | X | X | X | | | E |

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

| | DATE/TIME | RECEIVED BY | DATE/TIME |
|---|---|---|---|
| 1. RELINQUISHED BY SAMPLER: | 7/3/25, 1315 | 1. | 1315 7-3-25 |
| 2. RELINQUISHED BY SAMPLER: | DATE/TIME: | 2. RECEIVED BY: | |
| 3. RELINQUISHED BY SAMPLER: | DATE/TIME: 1412 7-3-25 | 3. RECEIVED BY: | |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.9 °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

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| CAS EPA CLP Contract | 68HERH20D0011 |
| Connecticut | PH-0830 |
| DOD ELAP (ANAB) | L2219 |
| Maine | 2024021 |
| Maryland | 296 |
| New Hampshire | 255424 Rev 1 |
| New Jersey | 20012 |
| New York | 11376 |
| Pennsylvania | 68-00548 |
| Soil Permit | 525-24-234-08441 |
| Texas | T104704488 |

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



# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q2514 CAMP02
**Client Name :** CDM Smith
**Client Contact :** Marcie Ann Encinas
**Invoice Name :** CDM Smith
**Invoice Contact :** Marcie Ann Encinas

**Order Date :** 7/3/2025 1:29:00 PM
**Project Name :** South River WM Replacem
**Receive DateTime :** 7/3/2025 ~~3:00:00~~ PM 14:12 KP
**Purchase Order :**

**Project Mgr :**
**Report Type :** Level 2
**EDD Type :** EXCEL NOCLEANUP
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q2514-01 | TP-92 | Solid | 07/02/2025 | 08:00 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2514-02 | TP-93 | Solid | 07/02/2025 | 08:30 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2514-03 | TP-94 | Solid | 07/02/2025 | 10:35 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2514-04 | TP-96 | Solid | 07/02/2025 | 11:25 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2514-05 | TP-97 | Solid | 07/02/2025 | 12:15 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2514-06 | TP-103 | Solid | 07/02/2025 | 13:45 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2514-07 | TP-36 | Solid | 07/03/2025 | 08:20 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2514-08 | TP-78 | Solid | 07/03/2025 | 08:55 | | | | | |

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



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| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2514-09 | TP-81 | Solid | 07/03/2025 | 10:00 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2514-10 | TP-90 | Solid | 07/03/2025 | 12:50 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |

**Relinguished By :**
**Date / Time :** 7/3/25 1430

**Received By :**
**Date / Time :** 07/03/25 14:30
**Storage Area :** VOA Refridgerator Room