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

# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-01** | **WC-1(5.5)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/08/24 | |
| **P4722-02** | **WC-1(3.5)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/08/24 | |
| **P4722-05** | **WC-1(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP VOA | 8260D | | | 11/13/24 | |
| **P4722-06** | **WC-2(2)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/07/24 | |
| **P4722-07** | **WC-2(4)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |
| **P4722-10** | **WC-2(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP VOA | 8260D | | | 11/13/24 | |
| **P4722-11** | **WC-3(5)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/07/24 | |
| **P4722-12** | **WC-3(3)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |
| **P4722-15** | **WC-3(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP VOA | 8260D | | | 11/13/24 | |
| **P4722-16** | **WC-1(5.5)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |
| **P4722-17** | **WC-1(3.5)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | VOC-TCLVOA-10 | 8260D | | | 11/07/24 | |
| **P4722-18** | **WC-2(2)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |

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# LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | TCLP VOA | 8260D | | 11/11/24 | |
| **P4722-19** | **WC-2(4)** | **SOIL** | | | **11/05/24** | | **11/05/24** |
| | | | VOC-TCLVOA-10 | 8260D | | 11/07/24 | |
| **P4722-20** | **WC-3(5)** | **TCLP** | | | **11/05/24** | | **11/05/24** |
| | | | TCLP VOA | 8260D | | 11/11/24 | |
| **P4722-21** | **WC-3(3)** | **SOIL** | | | **11/05/24** | | **11/05/24** |
| | | | VOC-TCLVOA-10 | 8260D | | 11/07/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **WC-1(5.5)** | | | | | | | | |
| P4722-01 | WC-1(5.5) | SOIL | Acetone | | 15.8 | | 3.40 | 13.6 | ug/Kg |
| P4722-01 | WC-1(5.5) | SOIL | Methylene Chloride | | 2.00 | J | 1.90 | 5.40 | ug/Kg |
| P4722-01 | WC-1(5.5) | SOIL | 2-Butanone | | 5.30 | J | 3.10 | 13.6 | ug/Kg |
| P4722-01 | WC-1(5.5) | SOIL | Chloroform | | 0.69 | J | 0.36 | 2.70 | ug/Kg |
| P4722-01 | WC-1(5.5) | SOIL | Tetrachloroethene | | 1.30 | J | 0.48 | 2.70 | ug/Kg |
| | | | **Total Voc :** | | 25.1 | | | | |
| P4722-01 | WC-1(5.5) | SOIL | unknown12.731 | * | 3.20 | J | 0 | 0 | ug/Kg |
| P4722-01 | WC-1(5.5) | SOIL | unknown13.664 | * | 2.90 | J | 0 | 0 | ug/Kg |
| P4722-01 | WC-1(5.5) | SOIL | Butane | * | 4.20 | J | 0 | 0 | ug/Kg |
| P4722-01 | WC-1(5.5) | SOIL | cis-3-Decene | * | 4.20 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | 14.5 | | | | |
| | | | **Total Concentration:** | | 39.6 | | | | |
| **Client ID:** | **WC-2(2)** | | | | | | | | |
| P4722-06 | WC-2(2) | SOIL | Bicyclo[3.1.0]hexane, 4-methyl | * | 4.00 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | 4.00 | | | | |
| | | | **Total Concentration:** | | 4.00 | | | | |
| **Client ID:** | **WC-3(5)** | | | | | | | | |
| P4722-11 | WC-3(5) | SOIL | Acetone | | 120 | | 5.20 | 20.9 | ug/Kg |
| P4722-11 | WC-3(5) | SOIL | Carbon Disulfide | | 1.70 | J | 1.10 | 4.20 | ug/Kg |
| P4722-11 | WC-3(5) | SOIL | 2-Butanone | | 34.1 | | 4.70 | 20.9 | ug/Kg |
| | | | **Total Voc :** | | 156 | | | | |
| P4722-11 | WC-3(5) | SOIL | unknown14.066 | * | 55.1 | J | 0 | 0 | ug/Kg |
| P4722-11 | WC-3(5) | SOIL | unknown14.651 | * | 110 | J | 0 | 0 | ug/Kg |
| P4722-11 | WC-3(5) | SOIL | unknown15.255 | * | 160 | J | 0 | 0 | ug/Kg |
| P4722-11 | WC-3(5) | SOIL | unknown15.511 | * | 91.3 | J | 0 | 0 | ug/Kg |
| P4722-11 | WC-3(5) | SOIL | Naphthalene, decahydro- | * | 120 | J | 0 | 0 | ug/Kg |
| P4722-11 | WC-3(5) | SOIL | 1-Methyldecahydronaphthalene | * | 190 | J | 0 | 0 | ug/Kg |
| P4722-11 | WC-3(5) | SOIL | Naphthalene, decahydro-2-metl | * | 170 | J | 0 | 0 | ug/Kg |
| P4722-11 | WC-3(5) | SOIL | Cyclohexane, 2-butyl-1,1,3-trin | * | 64.0 | J | 0 | 0 | ug/Kg |
| P4722-11 | WC-3(5) | SOIL | Cyclohexane, 2,4-diethyl-1-met | * | 70.6 | J | 0 | 0 | ug/Kg |
| P4722-11 | WC-3(5) | SOIL | trans, cis-3-Ethylbicyclo[4.4.0] | * | 58.2 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | 1090 | | | | |
| | | | **Total Concentration:** | | 1250 | | | | |
| **Client ID:** | **WC-1(3.5)** | | | | | | | | |
| P4722-17 | WC-1(3.5) | SOIL | Naphthalene | * | 0.95 | J | 0.79 | 2.70 | ug/Kg |
| | | | **Total Tics :** | | 0.95 | | | | |
| | | | **Total Concentration:** | | 0.95 | | | | |
| **Client ID:** | **WC-3(3)** | | | | | | | | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| P4722-21 | WC-3(3) | SOIL | Tetrachloroethene | 1.00 | J | 0.42 | 2.40 | ug/Kg |
| | | | **Total Voc :** | 1.00 | | | | |
| | | | **Total Concentration:** | 1.00 | | | | |

# SAMPLE DATA

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(5.5) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 88.4 |
| Sample Wt/Vol: | 10.39 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020230.D | 1 | | 11/08/24 14:02 | VY110824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.90 | U | 0.90 | 2.70 | ug/Kg |
| 74-87-3 | Chloromethane | 0.63 | U | 0.63 | 2.70 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.42 | U | 0.42 | 2.70 | ug/Kg |
| 74-83-9 | Bromomethane | 0.56 | U | 0.56 | 2.70 | ug/Kg |
| 75-00-3 | Chloroethane | 0.55 | U | 0.55 | 2.70 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U | 0.50 | 2.70 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.58 | U | 0.58 | 2.70 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.42 | U | 0.42 | 2.70 | ug/Kg |
| 67-64-1 | Acetone | 15.8 | | 3.40 | 13.6 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 0.70 | U | 0.70 | 2.70 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.36 | U | 0.36 | 2.70 | ug/Kg |
| 79-20-9 | Methyl Acetate | 0.98 | U | 0.98 | 2.70 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.00 | J | 1.90 | 5.40 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.46 | U | 0.46 | 2.70 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.34 | U | 0.34 | 2.70 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.38 | U | 0.38 | 2.70 | ug/Kg |
| 78-93-3 | 2-Butanone | 5.30 | J | 3.10 | 13.6 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.47 | U | 0.47 | 2.70 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.33 | U | 0.33 | 2.70 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.30 | U | 1.30 | 2.70 | ug/Kg |
| 67-66-3 | Chloroform | 0.69 | J | 0.36 | 2.70 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.42 | U | 0.42 | 2.70 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.47 | U | 0.47 | 2.70 | ug/Kg |
| 71-43-2 | Benzene | 0.39 | U | 0.39 | 2.70 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.33 | U | 0.33 | 2.70 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.41 | U | 0.41 | 2.70 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.36 | U | 0.36 | 2.70 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.30 | U | 0.30 | 2.70 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.40 | U | 2.40 | 13.6 | ug/Kg |
| 108-88-3 | Toluene | 0.36 | U | 0.36 | 2.70 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(5.5) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 88.4 |
| Sample Wt/Vol: | 10.39 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020230.D | 1 | | 11/08/24 14:02 | VY110824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.33 | U | 0.33 | 2.70 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.31 | U | 0.31 | 2.70 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.46 | U | 0.46 | 2.70 | ug/Kg |
| 591-78-6 | 2-Hexanone | 2.60 | U | 2.60 | 13.6 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.35 | U | 0.35 | 2.70 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.43 | U | 0.43 | 2.70 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.30 | J | 0.48 | 2.70 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.40 | U | 0.40 | 2.70 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.34 | U | 0.34 | 2.70 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 0.73 | U | 0.73 | 5.40 | ug/Kg |
| 95-47-6 | o-Xylene | 0.38 | U | 0.38 | 2.70 | ug/Kg |
| 100-42-5 | Styrene | 0.33 | U | 0.33 | 2.70 | ug/Kg |
| 75-25-2 | Bromoform | 0.44 | U | 0.44 | 2.70 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.36 | U | 0.36 | 2.70 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.60 | U | 0.60 | 2.70 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.40 | U | 0.40 | 2.70 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.44 | U | 0.44 | 2.70 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.32 | U | 0.32 | 2.70 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.85 | U | 0.85 | 2.70 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.43 | U | 0.43 | 2.70 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.42 | U | 0.42 | 2.70 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 61.1 | | 50 - 163 | 122% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.4 | | 54 - 147 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.9 | | 58 - 134 | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.7 | | 29 - 146 | 87% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 210000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 445000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 398000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 127000 | 13.347 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(5.5) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 88.4 |
| Sample Wt/Vol: | 10.39 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020230.D | 1 | | 11/08/24 14:02 | VY110824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 000106-97-8 | Butane | 4.20 | J | | 2.20 | ug/Kg |
| 019398-86-8 | cis-3-Decene | 4.20 | J | | 12.6 | ug/Kg |
| | unknown12.731 | 3.20 | J | | 12.7 | ug/Kg |
| | unknown13.664 | 2.90 | J | | 13.7 | ug/Kg |

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(2) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-06 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 89.8 |
| Sample Wt/Vol: | 11.43 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020207.D | 1 | | 11/07/24 15:20 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.80 | U | 0.80 | 2.40 | ug/Kg |
| 74-87-3 | Chloromethane | 0.57 | U | 0.57 | 2.40 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.38 | U | 0.38 | 2.40 | ug/Kg |
| 74-83-9 | Bromomethane | 0.50 | U | 0.50 | 2.40 | ug/Kg |
| 75-00-3 | Chloroethane | 0.49 | U | 0.49 | 2.40 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.44 | U | 0.44 | 2.40 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.52 | U | 0.52 | 2.40 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.38 | U | 0.38 | 2.40 | ug/Kg |
| 67-64-1 | Acetone | 3.00 | U | 3.00 | 12.2 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 0.62 | U | 0.62 | 2.40 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.33 | U | 0.33 | 2.40 | ug/Kg |
| 79-20-9 | Methyl Acetate | 0.88 | U | 0.88 | 2.40 | ug/Kg |
| 75-09-2 | Methylene Chloride | 1.70 | U | 1.70 | 4.90 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.41 | U | 0.41 | 2.40 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.31 | U | 0.31 | 2.40 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.34 | U | 0.34 | 2.40 | ug/Kg |
| 78-93-3 | 2-Butanone | 2.80 | U | 2.80 | 12.2 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.42 | U | 0.42 | 2.40 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.30 | U | 0.30 | 2.40 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.20 | U | 1.20 | 2.40 | ug/Kg |
| 67-66-3 | Chloroform | 0.33 | U | 0.33 | 2.40 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.38 | U | 0.38 | 2.40 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.42 | U | 0.42 | 2.40 | ug/Kg |
| 71-43-2 | Benzene | 0.35 | U | 0.35 | 2.40 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.30 | U | 0.30 | 2.40 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.37 | U | 0.37 | 2.40 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.32 | U | 0.32 | 2.40 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.27 | U | 0.27 | 2.40 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.10 | U | 2.10 | 12.2 | ug/Kg |
| 108-88-3 | Toluene | 0.33 | U | 0.33 | 2.40 | ug/Kg |

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(2) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-06 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 89.8 |
| Sample Wt/Vol: | 11.43 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020207.D | 1 | | 11/07/24 15:20 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.29 | U | 0.29 | 2.40 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.28 | U | 0.28 | 2.40 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.41 | U | 0.41 | 2.40 | ug/Kg |
| 591-78-6 | 2-Hexanone | 2.30 | U | 2.30 | 12.2 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.32 | U | 0.32 | 2.40 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.38 | U | 0.38 | 2.40 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.43 | U | 0.43 | 2.40 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.36 | U | 0.36 | 2.40 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.30 | U | 0.30 | 2.40 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 0.66 | U | 0.66 | 4.90 | ug/Kg |
| 95-47-6 | o-Xylene | 0.34 | U | 0.34 | 2.40 | ug/Kg |
| 100-42-5 | Styrene | 0.29 | U | 0.29 | 2.40 | ug/Kg |
| 75-25-2 | Bromoform | 0.39 | U | 0.39 | 2.40 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.33 | U | 0.33 | 2.40 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.54 | U | 0.54 | 2.40 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.36 | U | 0.36 | 2.40 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.39 | U | 0.39 | 2.40 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.29 | U | 0.29 | 2.40 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.76 | U | 0.76 | 2.40 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.38 | U | 0.38 | 2.40 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.38 | U | 0.38 | 2.40 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 61.8 | | 50 - 163 | 124% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.7 | | 54 - 147 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.5 | | 58 - 134 | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.7 | | 29 - 146 | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 199000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 428000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 407000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 154000 | 13.346 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(2) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-06 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 89.8 |
| Sample Wt/Vol: | 11.43 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020207.D | 1 | | 11/07/24 15:20 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 003387-41-5 | Bicyclo[3.1.0]hexane, 4-methylene- | 4.00 | J | | 12.7 | ug/Kg |

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(5) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-11 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 71.8 |
| Sample Wt/Vol: | 8.34 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020206.D | 1 | | 11/07/24 14:57 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.40 | U | 1.40 | 4.20 | ug/Kg |
| 74-87-3 | Chloromethane | 0.97 | U | 0.97 | 4.20 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.64 | U | 0.64 | 4.20 | ug/Kg |
| 74-83-9 | Bromomethane | 0.86 | U | 0.86 | 4.20 | ug/Kg |
| 75-00-3 | Chloroethane | 0.84 | U | 0.84 | 4.20 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.76 | U | 0.76 | 4.20 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.89 | U | 0.89 | 4.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.65 | U | 0.65 | 4.20 | ug/Kg |
| 67-64-1 | Acetone | 120 | | 5.20 | 20.9 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.70 | J | 1.10 | 4.20 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.56 | U | 0.56 | 4.20 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.50 | U | 1.50 | 4.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 2.80 | U | 2.80 | 8.30 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.70 | U | 0.70 | 4.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.53 | U | 0.53 | 4.20 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.58 | U | 0.58 | 4.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 34.1 | | 4.70 | 20.9 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.73 | U | 0.73 | 4.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.51 | U | 0.51 | 4.20 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.00 | U | 2.00 | 4.20 | ug/Kg |
| 67-66-3 | Chloroform | 0.56 | U | 0.56 | 4.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.65 | U | 0.65 | 4.20 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.73 | U | 0.73 | 4.20 | ug/Kg |
| 71-43-2 | Benzene | 0.60 | U | 0.60 | 4.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.51 | U | 0.51 | 4.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.63 | U | 0.63 | 4.20 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.55 | U | 0.55 | 4.20 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.47 | U | 0.47 | 4.20 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.60 | U | 3.60 | 20.9 | ug/Kg |
| 108-88-3 | Toluene | 0.56 | U | 0.56 | 4.20 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(5) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-11 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 71.8 |
| Sample Wt/Vol: | 8.34 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020206.D | 1 | | 11/07/24 14:57 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.50 | U | 0.50 | 4.20 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.48 | U | 0.48 | 4.20 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.70 | U | 0.70 | 4.20 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.00 | U | 4.00 | 20.9 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.54 | U | 0.54 | 4.20 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.66 | U | 0.66 | 4.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.74 | U | 0.74 | 4.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.62 | U | 0.62 | 4.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.52 | U | 0.52 | 4.20 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.10 | U | 1.10 | 8.30 | ug/Kg |
| 95-47-6 | o-Xylene | 0.58 | U | 0.58 | 4.20 | ug/Kg |
| 100-42-5 | Styrene | 0.50 | U | 0.50 | 4.20 | ug/Kg |
| 75-25-2 | Bromoform | 0.68 | U | 0.68 | 4.20 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.56 | U | 0.56 | 4.20 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.92 | U | 0.92 | 4.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.62 | U | 0.62 | 4.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.67 | U | 0.67 | 4.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.49 | U | 0.49 | 4.20 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.30 | U | 1.30 | 4.20 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.66 | U | 0.66 | 4.20 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.65 | U | 0.65 | 4.20 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 69.3 | | 50 - 163 | 139% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.6 | | 54 - 147 | 111% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.0 | | 58 - 134 | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 60.7 | | 29 - 146 | 121% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 143000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 298000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 290000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 125000 | 13.346 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(5) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-11 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 71.8 |
| Sample Wt/Vol: | 8.34 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020206.D | 1 | | 11/07/24 14:57 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 000091-17-8 | Naphthalene, decahydro- | 120 | J | | 13.7 | ug/Kg |
| | unknown14.066 | 55.1 | J | | 14.1 | ug/Kg |
| 002958-76-1 | Naphthalene, decahydro-2-methyl- | 170 | J | | 14.2 | ug/Kg |
| 002958-75-0 | 1-Methyldecahydronaphthalene | 190 | J | | 14.3 | ug/Kg |
| | unknown14.651 | 110 | J | | 14.7 | ug/Kg |
| 066660-43-3 | trans, cis-3-Ethylbicyclo[4.4.0]de | 58.2 | J | | 14.8 | ug/Kg |
| 054676-39-0 | Cyclohexane, 2-butyl-1,1,3-trimeth | 64.0 | J | | 15.0 | ug/Kg |
| | unknown15.255 | 160 | J | | 15.3 | ug/Kg |
| 061142-70-9 | Cyclohexane, 2,4-diethyl-1-methyl- | 70.6 | J | | 15.3 | ug/Kg |
| | unknown15.511 | 91.3 | J | | 15.5 | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(3.5) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-17 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 79.8 |
| Sample Wt/Vol: | 11.8 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020209.D | 1 | | 11/07/24 16:07 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.88 | U | 0.88 | 2.70 | ug/Kg |
| 74-87-3 | Chloromethane | 0.62 | U | 0.62 | 2.70 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.41 | U | 0.41 | 2.70 | ug/Kg |
| 74-83-9 | Bromomethane | 0.55 | U | 0.55 | 2.70 | ug/Kg |
| 75-00-3 | Chloroethane | 0.54 | U | 0.54 | 2.70 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.48 | U | 0.48 | 2.70 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.57 | U | 0.57 | 2.70 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.41 | U | 0.41 | 2.70 | ug/Kg |
| 67-64-1 | Acetone | 3.30 | U | 3.30 | 13.3 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 0.68 | U | 0.68 | 2.70 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.36 | U | 0.36 | 2.70 | ug/Kg |
| 79-20-9 | Methyl Acetate | 0.96 | U | 0.96 | 2.70 | ug/Kg |
| 75-09-2 | Methylene Chloride | 1.80 | U | 1.80 | 5.30 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.45 | U | 0.45 | 2.70 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.33 | U | 0.33 | 2.70 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.37 | U | 0.37 | 2.70 | ug/Kg |
| 78-93-3 | 2-Butanone | 3.00 | U | 3.00 | 13.3 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.46 | U | 0.46 | 2.70 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.32 | U | 0.32 | 2.70 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.30 | U | 1.30 | 2.70 | ug/Kg |
| 67-66-3 | Chloroform | 0.36 | U | 0.36 | 2.70 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.41 | U | 0.41 | 2.70 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.46 | U | 0.46 | 2.70 | ug/Kg |
| 71-43-2 | Benzene | 0.38 | U | 0.38 | 2.70 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.32 | U | 0.32 | 2.70 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.40 | U | 0.40 | 2.70 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.35 | U | 0.35 | 2.70 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.30 | U | 0.30 | 2.70 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.30 | U | 2.30 | 13.3 | ug/Kg |
| 108-88-3 | Toluene | 0.36 | U | 0.36 | 2.70 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(3.5) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-17 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 79.8 |
| Sample Wt/Vol: | 11.8 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020209.D | 1 | | 11/07/24 16:07 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.32 | U | 0.32 | 2.70 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.30 | U | 0.30 | 2.70 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.45 | U | 0.45 | 2.70 | ug/Kg |
| 591-78-6 | 2-Hexanone | 2.50 | U | 2.50 | 13.3 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.35 | U | 0.35 | 2.70 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.42 | U | 0.42 | 2.70 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.47 | U | 0.47 | 2.70 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.39 | U | 0.39 | 2.70 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.33 | U | 0.33 | 2.70 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 0.72 | U | 0.72 | 5.30 | ug/Kg |
| 95-47-6 | o-Xylene | 0.37 | U | 0.37 | 2.70 | ug/Kg |
| 100-42-5 | Styrene | 0.32 | U | 0.32 | 2.70 | ug/Kg |
| 75-25-2 | Bromoform | 0.43 | U | 0.43 | 2.70 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.36 | U | 0.36 | 2.70 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.58 | U | 0.58 | 2.70 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.39 | U | 0.39 | 2.70 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.42 | U | 0.42 | 2.70 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.31 | U | 0.31 | 2.70 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.83 | U | 0.83 | 2.70 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.42 | U | 0.42 | 2.70 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.41 | U | 0.41 | 2.70 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 62.6 | | 50 - 163 | 125% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.6 | | 54 - 147 | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.3 | | 58 - 134 | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.9 | | 29 - 146 | 96% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 181000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 389000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 362000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 133000 | 13.347 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(3.5) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-17 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 79.8 |
| Sample Wt/Vol: | 11.8 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020209.D | 1 | | 11/07/24 16:07 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 91-20-3 | Naphthalene | 0.95 | J | | 15.1 | ug/Kg |

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(4) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-19 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 89.4 |
| Sample Wt/Vol: | 12.89 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020210.D | 1 | | 11/07/24 16:31 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.72 | U | 0.72 | 2.20 | ug/Kg |
| 74-87-3 | Chloromethane | 0.50 | U | 0.50 | 2.20 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.33 | U | 0.33 | 2.20 | ug/Kg |
| 74-83-9 | Bromomethane | 0.45 | U | 0.45 | 2.20 | ug/Kg |
| 75-00-3 | Chloroethane | 0.44 | U | 0.44 | 2.20 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.39 | U | 0.39 | 2.20 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.46 | U | 0.46 | 2.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.34 | U | 0.34 | 2.20 | ug/Kg |
| 67-64-1 | Acetone | 2.70 | U | 2.70 | 10.8 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 0.56 | U | 0.56 | 2.20 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.29 | U | 0.29 | 2.20 | ug/Kg |
| 79-20-9 | Methyl Acetate | 0.78 | U | 0.78 | 2.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 1.50 | U | 1.50 | 4.30 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.36 | U | 0.36 | 2.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.27 | U | 0.27 | 2.20 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.30 | U | 0.30 | 2.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 2.50 | U | 2.50 | 10.8 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.38 | U | 0.38 | 2.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.26 | U | 0.26 | 2.20 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.10 | U | 1.10 | 2.20 | ug/Kg |
| 67-66-3 | Chloroform | 0.29 | U | 0.29 | 2.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.34 | U | 0.34 | 2.20 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.38 | U | 0.38 | 2.20 | ug/Kg |
| 71-43-2 | Benzene | 0.31 | U | 0.31 | 2.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.26 | U | 0.26 | 2.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.33 | U | 0.33 | 2.20 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.29 | U | 0.29 | 2.20 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.24 | U | 0.24 | 2.20 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 1.90 | U | 1.90 | 10.8 | ug/Kg |
| 108-88-3 | Toluene | 0.29 | U | 0.29 | 2.20 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(4) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-19 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 89.4 |
| Sample Wt/Vol: | 12.89 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020210.D | 1 | | 11/07/24 16:31 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.26 | U | 0.26 | 2.20 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.25 | U | 0.25 | 2.20 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.36 | U | 0.36 | 2.20 | ug/Kg |
| 591-78-6 | 2-Hexanone | 2.10 | U | 2.10 | 10.8 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.28 | U | 0.28 | 2.20 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.34 | U | 0.34 | 2.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.39 | U | 0.39 | 2.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.32 | U | 0.32 | 2.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.27 | U | 0.27 | 2.20 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 0.59 | U | 0.59 | 4.30 | ug/Kg |
| 95-47-6 | o-Xylene | 0.30 | U | 0.30 | 2.20 | ug/Kg |
| 100-42-5 | Styrene | 0.26 | U | 0.26 | 2.20 | ug/Kg |
| 75-25-2 | Bromoform | 0.35 | U | 0.35 | 2.20 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.29 | U | 0.29 | 2.20 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.48 | U | 0.48 | 2.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.32 | U | 0.32 | 2.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.35 | U | 0.35 | 2.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.26 | U | 0.26 | 2.20 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.68 | U | 0.68 | 2.20 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.34 | U | 0.34 | 2.20 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.34 | U | 0.34 | 2.20 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 64.4 | | 50 - 163 | 129% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.2 | | 54 - 147 | 108% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.8 | | 58 - 134 | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.9 | | 29 - 146 | 98% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 180000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 387000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 366000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 139000 | 13.346 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(4) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-19 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 89.4 |
| Sample Wt/Vol: | 12.89 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020210.D | 1 | | 11/07/24 16:31 | VY110724 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(3) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-21 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 87.7 |
| Sample Wt/Vol: | 12.07 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020211.D | 1 | | 11/07/24 16:54 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.78 | U | 0.78 | 2.40 | ug/Kg |
| 74-87-3 | Chloromethane | 0.55 | U | 0.55 | 2.40 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.36 | U | 0.36 | 2.40 | ug/Kg |
| 74-83-9 | Bromomethane | 0.49 | U | 0.49 | 2.40 | ug/Kg |
| 75-00-3 | Chloroethane | 0.48 | U | 0.48 | 2.40 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.43 | U | 0.43 | 2.40 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.51 | U | 0.51 | 2.40 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 0.37 | U | 0.37 | 2.40 | ug/Kg |
| 67-64-1 | Acetone | 2.90 | U | 2.90 | 11.8 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 0.60 | U | 0.60 | 2.40 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.32 | U | 0.32 | 2.40 | ug/Kg |
| 79-20-9 | Methyl Acetate | 0.85 | U | 0.85 | 2.40 | ug/Kg |
| 75-09-2 | Methylene Chloride | 1.60 | U | 1.60 | 4.70 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.40 | U | 0.40 | 2.40 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.30 | U | 0.30 | 2.40 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.33 | U | 0.33 | 2.40 | ug/Kg |
| 78-93-3 | 2-Butanone | 2.70 | U | 2.70 | 11.8 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.41 | U | 0.41 | 2.40 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.29 | U | 0.29 | 2.40 | ug/Kg |
| 74-97-5 | Bromochloromethane | 1.10 | U | 1.10 | 2.40 | ug/Kg |
| 67-66-3 | Chloroform | 0.32 | U | 0.32 | 2.40 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.37 | U | 0.37 | 2.40 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.41 | U | 0.41 | 2.40 | ug/Kg |
| 71-43-2 | Benzene | 0.34 | U | 0.34 | 2.40 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.29 | U | 0.29 | 2.40 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.35 | U | 0.35 | 2.40 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.31 | U | 0.31 | 2.40 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.26 | U | 0.26 | 2.40 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.10 | U | 2.10 | 11.8 | ug/Kg |
| 108-88-3 | Toluene | 0.32 | U | 0.32 | 2.40 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(3) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-21 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 87.7 |
| Sample Wt/Vol: | 12.07 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020211.D | 1 | | 11/07/24 16:54 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.28 | U | 0.28 | 2.40 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.27 | U | 0.27 | 2.40 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.40 | U | 0.40 | 2.40 | ug/Kg |
| 591-78-6 | 2-Hexanone | 2.30 | U | 2.30 | 11.8 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.31 | U | 0.31 | 2.40 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.37 | U | 0.37 | 2.40 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.00 | J | 0.42 | 2.40 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.35 | U | 0.35 | 2.40 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.29 | U | 0.29 | 2.40 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 0.64 | U | 0.64 | 4.70 | ug/Kg |
| 95-47-6 | o-Xylene | 0.33 | U | 0.33 | 2.40 | ug/Kg |
| 100-42-5 | Styrene | 0.28 | U | 0.28 | 2.40 | ug/Kg |
| 75-25-2 | Bromoform | 0.38 | U | 0.38 | 2.40 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.32 | U | 0.32 | 2.40 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.52 | U | 0.52 | 2.40 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.35 | U | 0.35 | 2.40 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.38 | U | 0.38 | 2.40 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.28 | U | 0.28 | 2.40 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.74 | U | 0.74 | 2.40 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.37 | U | 0.37 | 2.40 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.37 | U | 0.37 | 2.40 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 65.3 | | 50 - 163 | 131% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.3 | | 54 - 147 | 109% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.5 | | 58 - 134 | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.3 | | 29 - 146 | 95% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 175000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 372000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 352000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 123000 | 13.346 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(3) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-21 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 87.7 |
| Sample Wt/Vol: | 12.07 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020211.D | 1 | | 11/07/24 16:54 | VY110724 |

| 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

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

# Surrogate Summary

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| P4722-01 | WC-1(5.5) | 1,2-Dichloroethane-d4 | 50 | 61.1 | 122 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 52.4 | 105 | 54 | 147 |
| | | Toluene-d8 | 50 | 48.9 | 98 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 43.7 | 87 | 29 | 146 |
| P4722-06 | WC-2(2) | 1,2-Dichloroethane-d4 | 50 | 61.8 | 124 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 52.7 | 105 | 54 | 147 |
| | | Toluene-d8 | 50 | 49.5 | 99 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 50.7 | 101 | 29 | 146 |
| P4722-11 | WC-3(5) | 1,2-Dichloroethane-d4 | 50 | 69.3 | 139 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 55.6 | 111 | 54 | 147 |
| | | Toluene-d8 | 50 | 51.0 | 102 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 60.7 | 121 | 29 | 146 |
| P4722-17 | WC-1(3.5) | 1,2-Dichloroethane-d4 | 50 | 62.6 | 125 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 53.6 | 107 | 54 | 147 |
| | | Toluene-d8 | 50 | 49.3 | 99 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 47.9 | 96 | 29 | 146 |
| P4722-19 | WC-2(4) | 1,2-Dichloroethane-d4 | 50 | 64.4 | 129 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 54.2 | 108 | 54 | 147 |
| | | Toluene-d8 | 50 | 49.8 | 100 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 48.9 | 98 | 29 | 146 |
| P4722-21 | WC-3(3) | 1,2-Dichloroethane-d4 | 50 | 65.3 | 131 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 54.3 | 109 | 54 | 147 |
| | | Toluene-d8 | 50 | 49.5 | 99 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 47.3 | 95 | 29 | 146 |
| VY1107SBL01 | VY1107SBL01 | 1,2-Dichloroethane-d4 | 50 | 55.0 | 110 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 52.5 | 105 | 54 | 147 |
| | | Toluene-d8 | 50 | 49.4 | 99 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 43.8 | 88 | 29 | 146 |
| VY1107SBS01 | VY1107SBS01 | 1,2-Dichloroethane-d4 | 50 | 52.9 | 106 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 52.6 | 105 | 54 | 147 |
| | | Toluene-d8 | 50 | 51.9 | 104 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 52.2 | 104 | 29 | 146 |
| VY1107SBSD01 | VY1107SBSD01 | 1,2-Dichloroethane-d4 | 50 | 54.1 | 108 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 51.8 | 104 | 54 | 147 |
| | | Toluene-d8 | 50 | 51.6 | 103 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 51.7 | 103 | 29 | 146 |
| VY1108SBL01 | VY1108SBL01 | 1,2-Dichloroethane-d4 | 50 | 55.5 | 111 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 50.6 | 101 | 54 | 147 |
| | | Toluene-d8 | 50 | 48.3 | 97 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 44.7 | 89 | 29 | 146 |
| VY1108SBS01 | VY1108SBS01 | 1,2-Dichloroethane-d4 | 50 | 50.8 | 102 | 50 | 163 |
| | | Dibromofluoromethane | 50 | 49.9 | 100 | 54 | 147 |
| | | Toluene-d8 | 50 | 49.1 | 98 | 58 | 134 |
| | | 4-Bromofluorobenzene | 50 | 50.0 | 100 | 29 | 146 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260D **Datafile :** VY020198.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1107SBS01 | Dichlorodifluoromethane | 20 | 18.5 | ug/Kg | 93 | | | 64 | 136 | |
| | Chloromethane | 20 | 20.8 | ug/Kg | 104 | | | 70 | 130 | |
| | Vinyl chloride | 20 | 21.4 | ug/Kg | 107 | | | 72 | 129 | |
| | Bromomethane | 20 | 22.2 | ug/Kg | 111 | | | 58 | 141 | |
| | Chloroethane | 20 | 22.8 | ug/Kg | 114 | | | 69 | 130 | |
| | Trichlorofluoromethane | 20 | 21.9 | ug/Kg | 110 | | | 69 | 134 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.5 | ug/Kg | 108 | | | 81 | 123 | |
| | 1,1-Dichloroethene | 20 | 21.1 | ug/Kg | 106 | | | 79 | 121 | |
| | Acetone | 100 | 100 | ug/Kg | 100 | | | 60 | 131 | |
| | Carbon disulfide | 20 | 19.5 | ug/Kg | 98 | | | 45 | 154 | |
| | Methyl tert-butyl Ether | 20 | 21.5 | ug/Kg | 108 | | | 77 | 129 | |
| | Methyl Acetate | 20 | 22.4 | ug/Kg | 112 | | | 69 | 149 | |
| | Methylene Chloride | 20 | 20.3 | ug/Kg | 102 | | | 56 | 174 | |
| | trans-1,2-Dichloroethene | 20 | 21.0 | ug/Kg | 105 | | | 80 | 123 | |
| | 1,1-Dichloroethane | 20 | 21.1 | ug/Kg | 106 | | | 82 | 123 | |
| | Cyclohexane | 20 | 20.0 | ug/Kg | 100 | | | 76 | 122 | |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | | | 69 | 131 | |
| | Carbon Tetrachloride | 20 | 21.3 | ug/Kg | 106 | | | 76 | 129 | |
| | cis-1,2-Dichloroethene | 20 | 21.0 | ug/Kg | 105 | | | 82 | 123 | |
| | Bromochloromethane | 20 | 20.7 | ug/Kg | 104 | | | 80 | 127 | |
| | Chloroform | 20 | 21.5 | ug/Kg | 108 | | | 82 | 125 | |
| | 1,1,1-Trichloroethane | 20 | 21.4 | ug/Kg | 107 | | | 80 | 126 | |
| | Methylcyclohexane | 20 | 19.9 | ug/Kg | 100 | | | 77 | 123 | |
| | Benzene | 20 | 21.0 | ug/Kg | 105 | | | 84 | 121 | |
| | 1,2-Dichloroethane | 20 | 21.9 | ug/Kg | 110 | | | 81 | 126 | |
| | Trichloroethene | 20 | 20.8 | ug/Kg | 104 | | | 83 | 122 | |
| | 1,2-Dichloropropane | 20 | 21.7 | ug/Kg | 109 | | | 83 | 122 | |
| | Bromodichloromethane | 20 | 20.9 | ug/Kg | 104 | | | 82 | 123 | |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/Kg | 110 | | | 70 | 135 | |
| | Toluene | 20 | 21.4 | ug/Kg | 107 | | | 83 | 122 | |
| | t-1,3-Dichloropropene | 20 | 20.7 | ug/Kg | 104 | | | 78 | 124 | |
| | cis-1,3-Dichloropropene | 20 | 21.3 | ug/Kg | 106 | | | 81 | 122 | |
| | 1,1,2-Trichloroethane | 20 | 23.0 | ug/Kg | 115 | | | 82 | 125 | |
| | 2-Hexanone | 100 | 110 | ug/Kg | 110 | | | 66 | 138 | |
| | Dibromochloromethane | 20 | 21.5 | ug/Kg | 108 | | | 79 | 125 | |
| | 1,2-Dibromoethane | 20 | 21.4 | ug/Kg | 107 | | | 80 | 125 | |
| | Tetrachloroethene | 20 | 21.0 | ug/Kg | 105 | | | 83 | 125 | |
| | Chlorobenzene | 20 | 21.0 | ug/Kg | 105 | | | 84 | 122 | |
| | Ethyl Benzene | 20 | 20.7 | ug/Kg | 104 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 42.1 | ug/Kg | 105 | | | 83 | 124 | |
| | o-Xylene | 20 | 21.1 | ug/Kg | 106 | | | 83 | 123 | |
| | Styrene | 20 | 21.4 | ug/Kg | 107 | | | 82 | 124 | |
| | Bromoform | 20 | 21.7 | ug/Kg | 109 | | | 75 | 127 | |
| | Isopropylbenzene | 20 | 21.2 | ug/Kg | 106 | | | 82 | 124 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 21.1 | ug/Kg | 106 | | | 77 | 127 | |
| | 1,3-Dichlorobenzene | 20 | 21.5 | ug/Kg | 108 | | | 83 | 122 | |
| | 1,4-Dichlorobenzene | 20 | 21.6 | ug/Kg | 108 | | | 84 | 121 | |
| | 1,2-Dichlorobenzene | 20 | 21.7 | ug/Kg | 109 | | | 83 | 124 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260D **Datafile :** VY020198.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1107SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 21.4 | ug/Kg | 107 | | | 66 | 134 | |
| | 1,2,4-Trichlorobenzene | 20 | 20.7 | ug/Kg | 104 | | | 78 | 127 | |
| | 1,2,3-Trichlorobenzene | 20 | 20.0 | ug/Kg | 100 | | | 70 | 137 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260D **Datafile :** VY020199.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1107SBSD01 | Dichlorodifluoromethane | 20 | 19.2 | ug/Kg | 96 | 3 | | 64 | 136 | 20 |
| | Chloromethane | 20 | 19.6 | ug/Kg | 98 | 6 | | 70 | 130 | 20 |
| | Vinyl chloride | 20 | 20.0 | ug/Kg | 100 | 7 | | 72 | 129 | 20 |
| | Bromomethane | 20 | 20.8 | ug/Kg | 104 | 7 | | 58 | 141 | 20 |
| | Chloroethane | 20 | 20.5 | ug/Kg | 103 | 10 | | 69 | 130 | 20 |
| | Trichlorofluoromethane | 20 | 19.6 | ug/Kg | 98 | 12 | | 69 | 134 | 20 |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 19.9 | ug/Kg | 100 | 8 | | 81 | 123 | 20 |
| | 1,1-Dichloroethene | 20 | 19.1 | ug/Kg | 96 | 10 | | 79 | 121 | 20 |
| | Acetone | 100 | 110 | ug/Kg | 110 | 10 | | 60 | 131 | 20 |
| | Carbon disulfide | 20 | 17.4 | ug/Kg | 87 | 12 | | 45 | 154 | 20 |
| | Methyl tert-butyl Ether | 20 | 21.8 | ug/Kg | 109 | 1 | | 77 | 129 | 20 |
| | Methyl Acetate | 20 | 22.8 | ug/Kg | 114 | 2 | | 69 | 149 | 20 |
| | Methylene Chloride | 20 | 19.2 | ug/Kg | 96 | 6 | | 56 | 174 | 20 |
| | trans-1,2-Dichloroethene | 20 | 19.1 | ug/Kg | 96 | 9 | | 80 | 123 | 20 |
| | 1,1-Dichloroethane | 20 | 20.7 | ug/Kg | 104 | 2 | | 82 | 123 | 20 |
| | Cyclohexane | 20 | 17.9 | ug/Kg | 90 | 11 | | 76 | 122 | 20 |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | 0 | | 69 | 131 | 20 |
| | Carbon Tetrachloride | 20 | 19.0 | ug/Kg | 95 | 11 | | 76 | 129 | 20 |
| | cis-1,2-Dichloroethene | 20 | 19.9 | ug/Kg | 100 | 5 | | 82 | 123 | 20 |
| | Bromochloromethane | 20 | 19.9 | ug/Kg | 100 | 4 | | 80 | 127 | 20 |
| | Chloroform | 20 | 20.6 | ug/Kg | 103 | 5 | | 82 | 125 | 20 |
| | 1,1,1-Trichloroethane | 20 | 20.3 | ug/Kg | 102 | 5 | | 80 | 126 | 20 |
| | Methylcyclohexane | 20 | 17.5 | ug/Kg | 88 | 13 | | 77 | 123 | 20 |
| | Benzene | 20 | 19.9 | ug/Kg | 100 | 5 | | 84 | 121 | 20 |
| | 1,2-Dichloroethane | 20 | 21.1 | ug/Kg | 106 | 4 | | 81 | 126 | 20 |
| | Trichloroethene | 20 | 19.7 | ug/Kg | 99 | 5 | | 83 | 122 | 20 |
| | 1,2-Dichloropropane | 20 | 20.8 | ug/Kg | 104 | 5 | | 83 | 122 | 20 |
| | Bromodichloromethane | 20 | 20.6 | ug/Kg | 103 | 1 | | 82 | 123 | 20 |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/Kg | 110 | 0 | | 70 | 135 | 20 |
| | Toluene | 20 | 19.9 | ug/Kg | 100 | 7 | | 83 | 122 | 20 |
| | t-1,3-Dichloropropene | 20 | 19.8 | ug/Kg | 99 | 5 | | 78 | 124 | 20 |
| | cis-1,3-Dichloropropene | 20 | 20.3 | ug/Kg | 102 | 4 | | 81 | 122 | 20 |
| | 1,1,2-Trichloroethane | 20 | 21.5 | ug/Kg | 108 | 6 | | 82 | 125 | 20 |
| | 2-Hexanone | 100 | 110 | ug/Kg | 110 | 0 | | 66 | 138 | 20 |
| | Dibromochloromethane | 20 | 21.4 | ug/Kg | 107 | 1 | | 79 | 125 | 20 |
| | 1,2-Dibromoethane | 20 | 21.1 | ug/Kg | 106 | 1 | | 80 | 125 | 20 |
| | Tetrachloroethene | 20 | 19.7 | ug/Kg | 99 | 6 | | 83 | 125 | 20 |
| | Chlorobenzene | 20 | 20.1 | ug/Kg | 101 | 4 | | 84 | 122 | 20 |
| | Ethyl Benzene | 20 | 19.4 | ug/Kg | 97 | 7 | | 82 | 124 | 20 |
| | m/p-Xylenes | 40 | 39.0 | ug/Kg | 98 | 7 | | 83 | 124 | 20 |
| | o-Xylene | 20 | 19.4 | ug/Kg | 97 | 9 | | 83 | 123 | 20 |
| | Styrene | 20 | 19.9 | ug/Kg | 100 | 7 | | 82 | 124 | 20 |
| | Bromoform | 20 | 21.9 | ug/Kg | 110 | 1 | | 75 | 127 | 20 |
| | Isopropylbenzene | 20 | 19.4 | ug/Kg | 97 | 9 | | 82 | 124 | 20 |
| | 1,1,2,2-Tetrachloroethane | 20 | 21.1 | ug/Kg | 106 | 0 | | 77 | 127 | 20 |
| | 1,3-Dichlorobenzene | 20 | 20.0 | ug/Kg | 100 | 8 | | 83 | 122 | 20 |
| | 1,4-Dichlorobenzene | 20 | 20.0 | ug/Kg | 100 | 8 | | 84 | 121 | 20 |
| | 1,2-Dichlorobenzene | 20 | 20.5 | ug/Kg | 103 | 6 | | 83 | 124 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260D **Datafile :** VY020199.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1107SBSD01 | 1,2-Dibromo-3-Chloropropane | 20 | 20.6 | ug/Kg | 103 | 4 | | 66 | 134 | 20 |
| | 1,2,4-Trichlorobenzene | 20 | 19.5 | ug/Kg | 98 | 6 | | 78 | 127 | 20 |
| | 1,2,3-Trichlorobenzene | 20 | 19.5 | ug/Kg | 98 | 2 | | 70 | 137 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260D **Datafile :** VY020223.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1108SBS01 | Dichlorodifluoromethane | 20 | 17.2 | ug/Kg | 86 | | | 64 | 136 | |
| | Chloromethane | 20 | 18.6 | ug/Kg | 93 | | | 70 | 130 | |
| | Vinyl chloride | 20 | 19.3 | ug/Kg | 97 | | | 72 | 129 | |
| | Bromomethane | 20 | 20.2 | ug/Kg | 101 | | | 58 | 141 | |
| | Chloroethane | 20 | 19.9 | ug/Kg | 100 | | | 69 | 130 | |
| | Trichlorofluoromethane | 20 | 21.4 | ug/Kg | 107 | | | 69 | 134 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 20.6 | ug/Kg | 103 | | | 81 | 123 | |
| | 1,1-Dichloroethene | 20 | 20.2 | ug/Kg | 101 | | | 79 | 121 | |
| | Acetone | 100 | 100 | ug/Kg | 100 | | | 60 | 131 | |
| | Carbon disulfide | 20 | 17.1 | ug/Kg | 86 | | | 45 | 154 | |
| | Methyl tert-butyl Ether | 20 | 21.8 | ug/Kg | 109 | | | 77 | 129 | |
| | Methyl Acetate | 20 | 20.8 | ug/Kg | 104 | | | 69 | 149 | |
| | Methylene Chloride | 20 | 18.5 | ug/Kg | 93 | | | 56 | 174 | |
| | trans-1,2-Dichloroethene | 20 | 20.1 | ug/Kg | 101 | | | 80 | 123 | |
| | 1,1-Dichloroethane | 20 | 20.6 | ug/Kg | 103 | | | 82 | 123 | |
| | Cyclohexane | 20 | 18.5 | ug/Kg | 93 | | | 76 | 122 | |
| | 2-Butanone | 100 | 100 | ug/Kg | 100 | | | 69 | 131 | |
| | Carbon Tetrachloride | 20 | 20.1 | ug/Kg | 101 | | | 76 | 129 | |
| | cis-1,2-Dichloroethene | 20 | 20.5 | ug/Kg | 103 | | | 82 | 123 | |
| | Bromochloromethane | 20 | 19.9 | ug/Kg | 100 | | | 80 | 127 | |
| | Chloroform | 20 | 21.1 | ug/Kg | 106 | | | 82 | 125 | |
| | 1,1,1-Trichloroethane | 20 | 21.1 | ug/Kg | 106 | | | 80 | 126 | |
| | Methylcyclohexane | 20 | 18.5 | ug/Kg | 93 | | | 77 | 123 | |
| | Benzene | 20 | 19.8 | ug/Kg | 99 | | | 84 | 121 | |
| | 1,2-Dichloroethane | 20 | 20.4 | ug/Kg | 102 | | | 81 | 126 | |
| | Trichloroethene | 20 | 19.7 | ug/Kg | 99 | | | 83 | 122 | |
| | 1,2-Dichloropropane | 20 | 20.5 | ug/Kg | 103 | | | 83 | 122 | |
| | Bromodichloromethane | 20 | 20.7 | ug/Kg | 104 | | | 82 | 123 | |
| | 4-Methyl-2-Pentanone | 100 | 100 | ug/Kg | 100 | | | 70 | 135 | |
| | Toluene | 20 | 19.9 | ug/Kg | 100 | | | 83 | 122 | |
| | t-1,3-Dichloropropene | 20 | 20.0 | ug/Kg | 100 | | | 78 | 124 | |
| | cis-1,3-Dichloropropene | 20 | 20.3 | ug/Kg | 102 | | | 81 | 122 | |
| | 1,1,2-Trichloroethane | 20 | 20.5 | ug/Kg | 103 | | | 82 | 125 | |
| | 2-Hexanone | 100 | 100 | ug/Kg | 100 | | | 66 | 138 | |
| | Dibromochloromethane | 20 | 20.7 | ug/Kg | 104 | | | 79 | 125 | |
| | 1,2-Dibromoethane | 20 | 20.4 | ug/Kg | 102 | | | 80 | 125 | |
| | Tetrachloroethene | 20 | 20.5 | ug/Kg | 103 | | | 83 | 125 | |
| | Chlorobenzene | 20 | 20.1 | ug/Kg | 101 | | | 84 | 122 | |
| | Ethyl Benzene | 20 | 19.8 | ug/Kg | 99 | | | 82 | 124 | |
| | m/p-Xylenes | 40 | 40.6 | ug/Kg | 102 | | | 83 | 124 | |
| | o-Xylene | 20 | 20.0 | ug/Kg | 100 | | | 83 | 123 | |
| | Styrene | 20 | 20.7 | ug/Kg | 104 | | | 82 | 124 | |
| | Bromoform | 20 | 21.4 | ug/Kg | 107 | | | 75 | 127 | |
| | Isopropylbenzene | 20 | 20.6 | ug/Kg | 103 | | | 82 | 124 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 20.9 | ug/Kg | 104 | | | 77 | 127 | |
| | 1,3-Dichlorobenzene | 20 | 20.8 | ug/Kg | 104 | | | 83 | 122 | |
| | 1,4-Dichlorobenzene | 20 | 20.6 | ug/Kg | 103 | | | 84 | 121 | |
| | 1,2-Dichlorobenzene | 20 | 20.5 | ug/Kg | 103 | | | 83 | 124 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260D **Datafile :** VY020223.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1108SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 21.5 | ug/Kg | 108 | | | 66 | 134 | |
| | 1,2,4-Trichlorobenzene | 20 | 19.8 | ug/Kg | 99 | | | 78 | 127 | |
| | 1,2,3-Trichlorobenzene | 20 | 19.2 | ug/Kg | 96 | | | 70 | 137 | |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1107SBL01

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VY020197.D Lab Sample ID: VY1107SBL01

Date Analyzed: 11/07/2024 Time Analyzed: 11:19

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 |
|---|---|---|---|
| VY1107SBS01 | VY1107SBS01 | VY020198.D | 11/07/2024 |
| VY1107SBSD01 | VY1107SBSD01 | VY020199.D | 11/07/2024 |
| WC-3(5) | P4722-11 | VY020206.D | 11/07/2024 |
| WC-2(2) | P4722-06 | VY020207.D | 11/07/2024 |
| WC-1(3.5) | P4722-17 | VY020209.D | 11/07/2024 |
| WC-2(4) | P4722-19 | VY020210.D | 11/07/2024 |
| WC-3(3) | P4722-21 | VY020211.D | 11/07/2024 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1108SBL01

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VY020222.D Lab Sample ID: VY1108SBL01

Date Analyzed: 11/08/2024 Time Analyzed: 10:40

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 |
|---|---|---|---|
| VY1108SBS01 | VY1108SBS01 | VY020223.D | 11/08/2024 |
| WC-1(5.5) | P4722-01 | VY020230.D | 11/08/2024 |

COMMENTS:

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

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VY020074.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_Y BFB Injection Time: 12:07

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 | 24 |
| 75 | 30.0 - 60.0% of mass 95 | 57.2 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 1.1 ( 1.4 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 74.5 |
| 175 | 5.0 - 9.0% of mass 174 | 5.8 ( 7.8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 70.8 ( 95.1 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.9 ( 6.9 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VY020075.D | 10/30/2024 | 12:39 |
| VSTDICC010 | VSTDICC010 | VY020076.D | 10/30/2024 | 13:02 |
| VSTDICC020 | VSTDICC020 | VY020077.D | 10/30/2024 | 13:24 |
| VSTDICCC050 | VSTDICCC050 | VY020078.D | 10/30/2024 | 14:06 |
| VSTDICC100 | VSTDICC100 | VY020079.D | 10/30/2024 | 14:29 |
| VSTDICC150 | VSTDICC150 | VY020080.D | 10/30/2024 | 14:52 |

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

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VY020195.D BFB Injection Date: 11/07/2024

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 | 24.8 |
| 75 | 30.0 - 60.0% of mass 95 | 57.7 |
| 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 | 0.8 ( 1.1 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 71.7 |
| 175 | 5.0 - 9.0% of mass 174 | 5.8 ( 8.1 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 70.5 ( 98.3 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.6 ( 6.5 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY020196.D | 11/07/2024 | 10:27 |
| VY1107SBL01 | VY1107SBL01 | VY020197.D | 11/07/2024 | 11:19 |
| VY1107SBS01 | VY1107SBS01 | VY020198.D | 11/07/2024 | 11:50 |
| VY1107SBSD01 | VY1107SBSD01 | VY020199.D | 11/07/2024 | 12:13 |
| WC-3(5) | P4722-11 | VY020206.D | 11/07/2024 | 14:57 |
| WC-2(2) | P4722-06 | VY020207.D | 11/07/2024 | 15:20 |
| WC-1(3.5) | P4722-17 | VY020209.D | 11/07/2024 | 16:07 |
| WC-2(4) | P4722-19 | VY020210.D | 11/07/2024 | 16:31 |
| WC-3(3) | P4722-21 | VY020211.D | 11/07/2024 | 16:54 |

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

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VY020220.D BFB Injection Date: 11/08/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:45

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 23 |
| 75 | 30.0 - 60.0% of mass 95 | 58.2 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.9 |
| 173 | Less than 2.0% of mass 174 | 1 ( 1.4 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 73.8 |
| 175 | 5.0 - 9.0% of mass 174 | 5.7 ( 7.7 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 72.6 ( 98.4 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.8 ( 6.6 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY020221.D | 11/08/2024 | 09:33 |
| VY1108SBL01 | VY1108SBL01 | VY020222.D | 11/08/2024 | 10:40 |
| VY1108SBS01 | VY1108SBS01 | VY020223.D | 11/08/2024 | 11:19 |
| WC-1(5.5) | P4722-01 | VY020230.D | 11/08/2024 | 14:02 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VY020196.D Date Analyzed: 11/07/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:27

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 | 221675 | 7.71 | 394769 | 8.62 | 345161 | 11.41 |
| UPPER LIMIT | 443350 | 8.213 | 789538 | 9.116 | 690322 | 11.914 |
| LOWER LIMIT | 110838 | 7.213 | 197385 | 8.116 | 172581 | 10.914 |
| EPA SAMPLE NO. | | | | | | |
| WC-2(2) | 198592 | 7.71 | 428344 | 8.62 | 407022 | 11.41 |
| WC-3(5) | 142540 | 7.71 | 298274 | 8.62 | 289563 | 11.41 |
| WC-1(3.5) | 181277 | 7.71 | 389130 | 8.62 | 362163 | 11.41 |
| WC-2(4) | 179581 | 7.71 | 387425 | 8.62 | 366025 | 11.41 |
| WC-3(3) | 175489 | 7.71 | 372455 | 8.62 | 352192 | 11.41 |
| VY1107SBL01 | 168265 | 7.71 | 343319 | 8.62 | 313025 | 11.41 |
| VY1107SBS01 | 202685 | 7.71 | 361864 | 8.62 | 315230 | 11.41 |
| VY1107SBSD01 | 206563 | 7.71 | 375441 | 8.62 | 325231 | 11.41 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VY020196.D Date Analyzed: 11/07/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:27

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 165809 | 13.347 | | | | |
| UPPER LIMIT | 331618 | 13.847 | | | | |
| LOWER LIMIT | 82904.5 | 12.847 | | | | |
| EPA SAMPLE NO. | | | | | | |
| WC-2(2) | 153864 | 13.35 | | | | |
| WC-3(5) | 125008 | 13.35 | | | | |
| WC-1(3.5) | 133281 | 13.35 | | | | |
| WC-2(4) | 138732 | 13.35 | | | | |
| WC-3(3) | 123426 | 13.35 | | | | |
| VY1107SBL01 | 103250 | 13.35 | | | | |
| VY1107SBS01 | 144996 | 13.35 | | | | |
| VY1107SBSD01 | 151947 | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VY020221.D Date Analyzed: 11/08/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:33

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 | 282936 | 7.71 | 514187 | 8.62 | 441792 | 11.42 |
| UPPER LIMIT | 565872 | 8.213 | 1028370 | 9.116 | 883584 | 11.92 |
| LOWER LIMIT | 141468 | 7.213 | 257094 | 8.116 | 220896 | 10.92 |
| EPA SAMPLE NO. | | | | | | |
| WC-1(5.5) | 209744 | 7.71 | 444878 | 8.62 | 397795 | 11.41 |
| VY1108SBL01 | 212436 | 7.71 | 452508 | 8.62 | 403401 | 11.42 |
| VY1108SBS01 | 263593 | 7.71 | 480169 | 8.62 | 412478 | 11.41 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VY020221.D Date Analyzed: 11/08/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:33

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 208354 | 13.353 | | | | |
| UPPER LIMIT | 416708 | 13.853 | | | | |
| LOWER LIMIT | 104177 | 12.853 | | | | |
| EPA SAMPLE NO. | | | | | | |
| WC-1(5.5) | 127098 | 13.35 | | | | |
| VY1108SBL01 | 137264 | 13.35 | | | | |
| VY1108SBS01 | 187903 | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1107SBL01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1107SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020197.D | 1 | | 11/07/24 11:19 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.70 | U | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.77 | U | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 1.00 | U | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 1.00 | U | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.91 | U | 0.91 | 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 | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 6.20 | U | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.30 | U | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.80 | U | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 3.40 | U | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.84 | U | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.63 | U | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.69 | U | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 5.70 | U | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.40 | U | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 0.72 | U | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.66 | U | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.56 | U | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 4.40 | U | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 0.67 | U | 0.67 | 5.00 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1107SBL01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1107SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020197.D | 1 | | 11/07/24 11:19 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.60 | U | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.57 | U | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.84 | U | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.80 | U | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.89 | U | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.74 | U | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.40 | U | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.70 | U | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.60 | U | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.81 | U | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.74 | U | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.80 | U | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.59 | U | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.0 | | 50 - 163 | 110% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.5 | | 54 - 147 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.4 | | 58 - 134 | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.8 | | 29 - 146 | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 168000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 343000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 313000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 103000 | 13.347 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1107SBL01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1107SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020197.D | 1 | | 11/07/24 11:19 | VY110724 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1108SBL01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1108SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020222.D | 1 | | 11/08/24 10:40 | VY110824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.70 | U | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 1.20 | U | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 0.77 | U | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 1.00 | U | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 1.00 | U | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 0.91 | U | 0.91 | 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 | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 6.20 | U | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.30 | U | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 1.80 | U | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 3.40 | U | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 0.84 | U | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 0.63 | U | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 0.69 | U | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 5.70 | U | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.40 | U | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 0.87 | U | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 0.72 | U | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 0.61 | U | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 0.66 | U | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 0.56 | U | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 4.40 | U | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 0.67 | U | 0.67 | 5.00 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1108SBL01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1108SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020222.D | 1 | | 11/08/24 10:40 | VY110824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.60 | U | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.57 | U | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 0.84 | U | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 4.80 | U | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 0.65 | U | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 0.89 | U | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 0.74 | U | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 0.62 | U | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 1.40 | U | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 0.70 | U | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 0.60 | U | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 0.81 | U | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 0.67 | U | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.10 | U | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 0.74 | U | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 0.80 | U | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 0.59 | U | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.60 | U | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.79 | U | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.78 | U | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.5 | | 50 - 163 | 111% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.6 | | 54 - 147 | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.3 | | 58 - 134 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.7 | | 29 - 146 | 89% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 212000 | 7.713 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 453000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 403000 | 11.42 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 137000 | 13.352 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1108SBL01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1108SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020222.D | 1 | | 11/08/24 10:40 | VY110824 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1107SBS01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1107SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020198.D | 1 | | 11/07/24 11:50 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 18.5 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 20.8 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 21.4 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 22.2 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 22.8 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 21.9 | | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.5 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 21.1 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 100 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 19.5 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 21.5 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 22.4 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 20.3 | | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 21.0 | | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.1 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 20.0 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 21.3 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 21.0 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 20.7 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.5 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.4 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 19.9 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 21.0 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 21.9 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.8 | | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 21.7 | | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.9 | | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 21.4 | | 0.67 | 5.00 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1107SBS01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1107SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020198.D | 1 | | 11/07/24 11:50 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 20.7 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 21.3 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 23.0 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 110 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 21.5 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 21.4 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 21.0 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 21.0 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.7 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 42.1 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 21.1 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 21.4 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 21.7 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 21.2 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 21.1 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 21.5 | | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 21.6 | | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 21.7 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 21.4 | | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.7 | | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.0 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.9 | | 50 - 163 | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.6 | | 54 - 147 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.9 | | 58 - 134 | 104% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.2 | | 29 - 146 | 104% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 203000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 362000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 315000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 145000 | 13.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1107SBS01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1107SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020198.D | 1 | | 11/07/24 11:50 | VY110724 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1108SBS01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1108SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020223.D | 1 | | 11/08/24 11:19 | VY110824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 17.2 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 18.6 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 19.3 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 20.2 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 19.9 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 21.4 | | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 20.6 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 20.2 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 100 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 17.1 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 21.8 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 20.8 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 18.5 | | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 20.1 | | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 20.6 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 18.5 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 100 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.1 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 20.5 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 19.9 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.1 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.1 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 18.5 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 19.8 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.4 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.7 | | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 20.5 | | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.7 | | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 19.9 | | 0.67 | 5.00 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1108SBS01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1108SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020223.D | 1 | | 11/08/24 11:19 | VY110824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 20.0 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.3 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 20.5 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 100 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.7 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.4 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 20.5 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.1 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.8 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 40.6 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.0 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 20.7 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 21.4 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 20.6 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.9 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.8 | | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.6 | | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.5 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 21.5 | | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19.8 | | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19.2 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.8 | | 50 - 163 | 102% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.9 | | 54 - 147 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.1 | | 58 - 134 | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.0 | | 29 - 146 | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 264000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 480000 | 8.615 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 412000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 188000 | 13.346 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1108SBS01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1108SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020223.D | 1 | | 11/08/24 11:19 | VY110824 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1107SBSD01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1107SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020199.D | 1 | | 11/07/24 12:13 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 19.2 | | 1.70 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 19.6 | | 1.20 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 20.0 | | 0.77 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 20.8 | | 1.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 20.5 | | 1.00 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 19.6 | | 0.91 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 19.9 | | 1.10 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 19.1 | | 0.78 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 110 | | 6.20 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 17.4 | | 1.30 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 21.8 | | 0.67 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 22.8 | | 1.80 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 19.2 | | 3.40 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 19.1 | | 0.84 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 20.7 | | 0.63 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 17.9 | | 0.69 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 5.70 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 19.0 | | 0.87 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 19.9 | | 0.61 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 19.9 | | 2.40 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 20.6 | | 0.67 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.3 | | 0.78 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 17.5 | | 0.87 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 19.9 | | 0.72 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 21.1 | | 0.61 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.7 | | 0.75 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 20.8 | | 0.66 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.6 | | 0.56 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 4.40 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 19.9 | | 0.67 | 5.00 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1107SBSD01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1107SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020199.D | 1 | | 11/07/24 12:13 | VY110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.8 | | 0.60 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.3 | | 0.57 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 21.5 | | 0.84 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 110 | | 4.80 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 21.4 | | 0.65 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 21.1 | | 0.79 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 19.7 | | 0.89 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.1 | | 0.74 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.4 | | 0.62 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 39.0 | | 1.40 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 19.4 | | 0.70 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 19.9 | | 0.60 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 21.9 | | 0.81 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 19.4 | | 0.67 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 21.1 | | 1.10 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.0 | | 0.74 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.0 | | 0.80 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.5 | | 0.59 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 20.6 | | 1.60 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19.5 | | 0.79 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19.5 | | 0.78 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.1 | | 50 - 163 | 108% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.8 | | 54 - 147 | 104% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.6 | | 58 - 134 | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.7 | | 29 - 146 | 103% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 207000 | 7.707 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 375000 | 8.616 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 325000 | 11.414 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 152000 | 13.346 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VY1107SBSD01 | SDG No.: | P4722 |
| Lab Sample ID: | VY1107SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020199.D | 1 | | 11/07/24 12:13 | VY110724 |

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

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

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

# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID: RRF005 = VY020075.D RRF010 = VY020076.D RRF020 = VY020077.D
RRF050 = VY020078.D RRF100 = VY020079.D RRF150 = VY020080.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.507 | 0.488 | 0.482 | 0.381 | 0.456 | 0.463 | 0.463 | 9.5 |
| Chloromethane | 0.831 | 0.835 | 0.791 | 0.683 | 0.731 | 0.728 | 0.767 | 8.1 |
| Vinyl Chloride | 0.867 | 0.874 | 0.835 | 0.754 | 0.809 | 0.799 | 0.823 | 5.5 |
| Bromomethane | 0.631 | 0.574 | 0.545 | 0.480 | 0.521 | 0.528 | 0.546 | 9.5 |
| Chloroethane | 0.562 | 0.555 | 0.546 | 0.486 | 0.527 | 0.511 | 0.531 | 5.5 |
| Trichlorofluoromethane | 1.025 | 1.018 | 1.037 | 0.927 | 1.012 | 1.014 | 1.005 | 3.9 |
| 1,1,2-Trichlorotrifluoroethane | 0.597 | 0.584 | 0.567 | 0.509 | 0.561 | 0.565 | 0.564 | 5.3 |
| 1,1-Dichloroethene | 0.534 | 0.578 | 0.536 | 0.493 | 0.543 | 0.552 | 0.540 | 5.1 |
| Acetone | 0.134 | 0.138 | 0.138 | 0.140 | 0.165 | 0.155 | 0.145 | 8.5 |
| Carbon Disulfide | 1.790 | 1.835 | 1.806 | 1.674 | 1.832 | 1.837 | 1.796 | 3.5 |
| Methyl tert-butyl Ether | 1.229 | 1.344 | 1.376 | 1.241 | 1.483 | 1.471 | 1.357 | 8 |
| Methyl Acetate | 0.314 | 0.357 | 0.351 | 0.317 | 0.362 | 0.342 | 0.340 | 6 |
| Methylene Chloride | 0.807 | 0.716 | 0.641 | 0.555 | 0.597 | 0.597 | 0.652 | 14.3 |
| trans-1,2-Dichloroethene | 0.611 | 0.618 | 0.613 | 0.564 | 0.616 | 0.628 | 0.609 | 3.7 |
| 1,1-Dichloroethane | 1.155 | 1.209 | 1.189 | 1.070 | 1.194 | 1.200 | 1.170 | 4.5 |
| Cyclohexane | 1.284 | 1.206 | 1.138 | 0.986 | 1.093 | 1.088 | 1.132 | 9.1 |
| 2-Butanone | 0.187 | 0.197 | 0.192 | 0.179 | 0.219 | 0.206 | 0.197 | 7.3 |
| Carbon Tetrachloride | 0.467 | 0.491 | 0.499 | 0.462 | 0.519 | 0.524 | 0.494 | 5.2 |
| cis-1,2-Dichloroethene | 0.646 | 0.714 | 0.715 | 0.646 | 0.740 | 0.736 | 0.700 | 6.1 |
| Bromochloromethane | 0.572 | 0.562 | 0.527 | 0.505 | 0.553 | 0.567 | 0.548 | 4.8 |
| Chloroform | 1.141 | 1.170 | 1.186 | 1.068 | 1.196 | 1.203 | 1.161 | 4.3 |
| 1,1,1-Trichloroethane | 0.986 | 1.026 | 1.009 | 0.950 | 1.041 | 1.069 | 1.013 | 4.1 |
| Methylcyclohexane | 0.603 | 0.602 | 0.631 | 0.578 | 0.665 | 0.661 | 0.623 | 5.6 |
| Benzene | 1.414 | 1.405 | 1.455 | 1.325 | 1.504 | 1.498 | 1.433 | 4.7 |
| 1,2-Dichloroethane | 0.379 | 0.391 | 0.402 | 0.365 | 0.425 | 0.418 | 0.397 | 5.8 |
| Trichloroethene | 0.328 | 0.331 | 0.332 | 0.307 | 0.348 | 0.346 | 0.332 | 4.4 |
| 1,2-Dichloropropane | 0.323 | 0.331 | 0.357 | 0.320 | 0.363 | 0.364 | 0.343 | 6 |
| Bromodichloromethane | 0.459 | 0.476 | 0.487 | 0.451 | 0.526 | 0.522 | 0.487 | 6.4 |
| 4-Methyl-2-Pentanone | 0.190 | 0.223 | 0.238 | 0.219 | 0.269 | 0.252 | 0.232 | 11.9 |
| Toluene | 0.803 | 0.859 | 0.900 | 0.833 | 0.953 | 0.953 | 0.884 | 7.1 |

* 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: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID: RRF005 = VY020075.D RRF010 = VY020076.D RRF020 = VY020077.D
RRF050 = VY020078.D RRF100 = VY020079.D RRF150 = VY020080.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.369 | 0.400 | 0.436 | 0.401 | 0.486 | 0.487 | 0.430 | 11.3 |
| cis-1,3-Dichloropropene | 0.446 | 0.485 | 0.518 | 0.484 | 0.573 | 0.573 | 0.513 | 10 |
| 1,1,2-Trichloroethane | 0.206 | 0.225 | 0.235 | 0.216 | 0.257 | 0.248 | 0.231 | 8.4 |
| 2-Hexanone | 0.131 | 0.161 | 0.168 | 0.158 | 0.198 | 0.182 | 0.166 | 13.7 |
| Dibromochloromethane | 0.256 | 0.281 | 0.300 | 0.273 | 0.332 | 0.326 | 0.295 | 10.3 |
| 1,2-Dibromoethane | 0.203 | 0.214 | 0.215 | 0.196 | 0.233 | 0.228 | 0.215 | 6.7 |
| Tetrachloroethene | 0.326 | 0.316 | 0.344 | 0.307 | 0.344 | 0.343 | 0.330 | 4.8 |
| Chlorobenzene | 1.024 | 1.044 | 1.094 | 0.993 | 1.114 | 1.124 | 1.065 | 5 |
| Ethyl Benzene | 1.886 | 1.934 | 2.015 | 1.876 | 2.114 | 2.124 | 1.992 | 5.5 |
| m/p-Xylenes | 0.685 | 0.693 | 0.742 | 0.692 | 0.779 | 0.782 | 0.729 | 6.2 |
| o-Xylene | 0.652 | 0.662 | 0.686 | 0.649 | 0.745 | 0.745 | 0.690 | 6.5 |
| Styrene | 0.985 | 1.080 | 1.154 | 1.093 | 1.259 | 1.273 | 1.141 | 9.8 |
| Bromoform | 0.151 | 0.162 | 0.173 | 0.165 | 0.202 | 0.195 | 0.175 | 11.4 |
| Isopropylbenzene | 4.065 | 3.829 | 3.995 | 3.685 | 4.099 | 4.293 | 3.994 | 5.3 |
| 1,1,2,2-Tetrachloroethane | 0.716 | 0.707 | 0.698 | 0.624 | 0.727 | 0.719 | 0.699 | 5.4 |
| 1,3-Dichlorobenzene | 1.659 | 1.521 | 1.680 | 1.509 | 1.703 | 1.774 | 1.641 | 6.4 |
| 1,4-Dichlorobenzene | 1.680 | 1.604 | 1.653 | 1.487 | 1.666 | 1.716 | 1.634 | 5 |
| 1,2-Dichlorobenzene | 1.391 | 1.384 | 1.460 | 1.310 | 1.483 | 1.530 | 1.426 | 5.6 |
| 1,2-Dibromo-3-Chloropropane | 0.107 | 0.104 | 0.106 | 0.092 | 0.114 | 0.112 | 0.106 | 7.6 |
| 1,2,4-Trichlorobenzene | 0.652 | 0.708 | 0.784 | 0.693 | 0.865 | 0.895 | 0.766 | 12.8 |
| 1,2,3-Trichlorobenzene | 0.578 | 0.606 | 0.653 | 0.575 | 0.737 | 0.754 | 0.650 | 12.1 |
| 1,2-Dichloroethane-d4 | 0.608 | 0.657 | 0.578 | 0.586 | 0.668 | 0.647 | 0.624 | 6.1 |
| Dibromofluoromethane | 0.305 | 0.317 | 0.300 | 0.305 | 0.340 | 0.340 | 0.318 | 5.7 |
| Toluene-d8 | 1.187 | 1.251 | 1.187 | 1.224 | 1.380 | 1.364 | 1.265 | 6.8 |
| 4-Bromofluorobenzene | 0.371 | 0.402 | 0.376 | 0.399 | 0.463 | 0.454 | 0.411 | 9.5 |

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

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

# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_Y Calibration Date/Time: 11/07/2024 10:27

Lab File ID: VY020196.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.463 | 0.423 | | -8.64 | 20 |
| Chloromethane | 0.767 | 0.852 | 0.1 | 11.08 | 20 |
| Vinyl Chloride | 0.823 | 0.900 | | 9.36 | 20 |
| Bromomethane | 0.546 | 0.606 | | 10.99 | 20 |
| Chloroethane | 0.531 | 0.598 | | 12.62 | 20 |
| Trichlorofluoromethane | 1.005 | 1.058 | | 5.27 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.564 | 0.594 | | 5.32 | 20 |
| 1,1-Dichloroethene | 0.540 | 0.561 | | 3.89 | 20 |
| Acetone | 0.145 | 0.174 | | 20 | 20 |
| Carbon Disulfide | 1.796 | 1.821 | | 1.39 | 20 |
| Methyl tert-butyl Ether | 1.357 | 1.514 | | 11.57 | 20 |
| Methyl Acetate | 0.340 | 0.370 | | 8.82 | 20 |
| Methylene Chloride | 0.652 | 0.639 | | -1.99 | 20 |
| trans-1,2-Dichloroethene | 0.609 | 0.650 | | 6.73 | 20 |
| 1,1-Dichloroethane | 1.170 | 1.292 | 0.1 | 10.43 | 20 |
| Cyclohexane | 1.132 | 1.113 | | -1.68 | 20 |
| 2-Butanone | 0.197 | 0.224 | | 13.71 | 20 |
| Carbon Tetrachloride | 0.494 | 0.543 | | 9.92 | 20 |
| cis-1,2-Dichloroethene | 0.700 | 0.773 | | 10.43 | 20 |
| Bromochloromethane | 0.548 | 0.557 | | 1.64 | 20 |
| Chloroform | 1.161 | 1.286 | | 10.77 | 20 |
| 1,1,1-Trichloroethane | 1.013 | 1.115 | | 10.07 | 20 |
| Methylcyclohexane | 0.623 | 0.646 | | 3.69 | 20 |
| Benzene | 1.433 | 1.588 | | 10.82 | 20 |
| 1,2-Dichloroethane | 0.397 | 0.446 | | 12.34 | 20 |
| Trichloroethene | 0.332 | 0.359 | | 8.13 | 20 |
| 1,2-Dichloropropane | 0.343 | 0.388 | | 13.12 | 20 |
| Bromodichloromethane | 0.487 | 0.550 | | 12.94 | 20 |
| 4-Methyl-2-Pentanone | 0.232 | 0.265 | | 14.22 | 20 |
| Toluene | 0.884 | 0.985 | | 11.43 | 20 |
| t-1,3-Dichloropropene | 0.430 | 0.500 | | 16.28 | 20 |
| cis-1,3-Dichloropropene | 0.513 | 0.595 | | 15.98 | 20 |
| 1,1,2-Trichloroethane | 0.231 | 0.264 | | 14.29 | 20 |
| 2-Hexanone | 0.166 | 0.195 | | 17.47 | 20 |
| Dibromochloromethane | 0.295 | 0.339 | | 14.91 | 20 |
| 1,2-Dibromoethane | 0.215 | 0.239 | | 11.16 | 20 |
| Tetrachloroethene | 0.330 | 0.366 | | 10.91 | 20 |
| Chlorobenzene | 1.065 | 1.193 | 0.3 | 12.02 | 20 |

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_Y Calibration Date/Time: 11/07/2024 10:27

Lab File ID: VY020196.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.992 | 2.235 | | 12.2 | 20 |
| m/p-Xylenes | 0.729 | 0.825 | | 13.17 | 20 |
| o-Xylene | 0.690 | 0.788 | | 14.2 | 20 |
| Styrene | 1.141 | 1.335 | | 17 | 20 |
| Bromoform | 0.175 | 0.204 | 0.1 | 16.57 | 20 |
| Isopropylbenzene | 3.994 | 4.361 | | 9.19 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.699 | 0.750 | 0.3 | 7.3 | 20 |
| 1,3-Dichlorobenzene | 1.641 | 1.834 | | 11.76 | 20 |
| 1,4-Dichlorobenzene | 1.634 | 1.787 | | 9.36 | 20 |
| 1,2-Dichlorobenzene | 1.426 | 1.588 | | 11.36 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.106 | 0.116 | | 9.43 | 20 |
| 1,2,4-Trichlorobenzene | 0.766 | 0.830 | | 8.35 | 20 |
| 1,2,3-Trichlorobenzene | 0.650 | 0.689 | | 6 | 20 |
| 1,2-Dichloroethane-d4 | 0.624 | 0.663 | | 6.25 | 20 |
| Dibromofluoromethane | 0.318 | 0.343 | | 7.86 | 20 |
| Toluene-d8 | 1.265 | 1.320 | | 4.35 | 20 |
| 4-Bromofluorobenzene | 0.411 | 0.446 | | 8.52 | 20 |

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_Y Calibration Date/Time: 11/08/2024 09:33

Lab File ID: VY020221.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.463 | 0.412 | | -11.02 | 20 |
| Chloromethane | 0.767 | 0.758 | 0.1 | -1.17 | 20 |
| Vinyl Chloride | 0.823 | 0.902 | | 9.6 | 20 |
| Bromomethane | 0.546 | 0.575 | | 5.31 | 20 |
| Chloroethane | 0.531 | 0.600 | | 12.99 | 20 |
| Trichlorofluoromethane | 1.005 | 1.166 | | 16.02 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.564 | 0.638 | | 13.12 | 20 |
| 1,1-Dichloroethene | 0.540 | 0.596 | | 10.37 | 20 |
| Acetone | 0.145 | 0.177 | | 22.07 | 20 |
| Carbon Disulfide | 1.796 | 1.901 | | 5.85 | 20 |
| Methyl tert-butyl Ether | 1.357 | 1.510 | | 11.27 | 20 |
| Methyl Acetate | 0.340 | 0.345 | | 1.47 | 20 |
| Methylene Chloride | 0.652 | 0.630 | | -3.37 | 20 |
| trans-1,2-Dichloroethene | 0.609 | 0.682 | | 11.99 | 20 |
| 1,1-Dichloroethane | 1.170 | 1.333 | 0.1 | 13.93 | 20 |
| Cyclohexane | 1.132 | 1.185 | | 4.68 | 20 |
| 2-Butanone | 0.197 | 0.214 | | 8.63 | 20 |
| Carbon Tetrachloride | 0.494 | 0.582 | | 17.81 | 20 |
| cis-1,2-Dichloroethene | 0.700 | 0.800 | | 14.29 | 20 |
| Bromochloromethane | 0.548 | 0.552 | | 0.73 | 20 |
| Chloroform | 1.161 | 1.349 | | 16.19 | 20 |
| 1,1,1-Trichloroethane | 1.013 | 1.203 | | 18.76 | 20 |
| Methylcyclohexane | 0.623 | 0.708 | | 13.64 | 20 |
| Benzene | 1.433 | 1.608 | | 12.21 | 20 |
| 1,2-Dichloroethane | 0.397 | 0.432 | | 8.82 | 20 |
| Trichloroethene | 0.332 | 0.376 | | 13.25 | 20 |
| 1,2-Dichloropropane | 0.343 | 0.385 | | 12.24 | 20 |
| Bromodichloromethane | 0.487 | 0.557 | | 14.37 | 20 |
| 4-Methyl-2-Pentanone | 0.232 | 0.242 | | 4.31 | 20 |
| Toluene | 0.884 | 1.030 | | 16.52 | 20 |
| t-1,3-Dichloropropene | 0.430 | 0.481 | | 11.86 | 20 |
| cis-1,3-Dichloropropene | 0.513 | 0.573 | | 11.7 | 20 |
| 1,1,2-Trichloroethane | 0.231 | 0.255 | | 10.39 | 20 |
| 2-Hexanone | 0.166 | 0.179 | | 7.83 | 20 |
| Dibromochloromethane | 0.295 | 0.334 | | 13.22 | 20 |
| 1,2-Dibromoethane | 0.215 | 0.231 | | 7.44 | 20 |
| Tetrachloroethene | 0.330 | 0.386 | | 16.97 | 20 |
| Chlorobenzene | 1.065 | 1.227 | 0.3 | 15.21 | 20 |

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_Y Calibration Date/Time: 11/08/2024 09:33

Lab File ID: VY020221.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.992 | 2.350 | | 17.97 | 20 |
| m/p-Xylenes | 0.729 | 0.859 | | 17.83 | 20 |
| o-Xylene | 0.690 | 0.808 | | 17.1 | 20 |
| Styrene | 1.141 | 1.371 | | 20.16 | 20 |
| Bromoform | 0.175 | 0.201 | 0.1 | 14.86 | 20 |
| Isopropylbenzene | 3.994 | 4.721 | | 18.2 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.699 | 0.726 | 0.3 | 3.86 | 20 |
| 1,3-Dichlorobenzene | 1.641 | 1.877 | | 14.38 | 20 |
| 1,4-Dichlorobenzene | 1.634 | 1.830 | | 11.99 | 20 |
| 1,2-Dichlorobenzene | 1.426 | 1.635 | | 14.66 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.106 | 0.107 | | 0.94 | 20 |
| 1,2,4-Trichlorobenzene | 0.766 | 0.872 | | 13.84 | 20 |
| 1,2,3-Trichlorobenzene | 0.650 | 0.716 | | 10.15 | 20 |
| 1,2-Dichloroethane-d4 | 0.624 | 0.603 | | -3.37 | 20 |
| Dibromofluoromethane | 0.318 | 0.309 | | -2.83 | 20 |
| Toluene-d8 | 1.265 | 1.242 | | -1.82 | 20 |
| 4-Bromofluorobenzene | 0.411 | 0.414 | | 0.73 | 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:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-02** | **WC-1(3.5)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/08/24 | |
| **P4722-07** | **WC-2(4)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |
| **P4722-12** | **WC-3(3)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |
| **P4722-16** | **WC-1(5.5)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |
| **P4722-18** | **WC-2(2)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |
| **P4722-20** | **WC-3(5)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **WC-1(3.5)** | | | | | | | |
| P4722-02 | WC-1(3.5) | TCLP | 2-Butanone | 7.40 | J | 1.30 | 25.0 | ug/L |
| | | | **Total Voc :** | 7.40 | | | | |
| | | | **Total Concentration:** | 7.40 | | | | |
| **Client ID:** | **WC-2(4)** | | | | | | | |
| P4722-07 | WC-2(4) | TCLP | 2-Butanone | 8.30 | J | 1.30 | 25.0 | ug/L |
| | | | **Total Voc :** | 8.30 | | | | |
| | | | **Total Concentration:** | 8.30 | | | | |
| **Client ID:** | **WC-3(3)** | | | | | | | |
| P4722-12 | WC-3(3) | TCLP | 2-Butanone | 8.00 | J | 1.30 | 25.0 | ug/L |
| | | | **Total Voc :** | 8.00 | | | | |
| | | | **Total Concentration:** | 8.00 | | | | |
| **Client ID:** | **WC-1(5.5)** | | | | | | | |
| P4722-16 | WC-1(5.5) | TCLP | 2-Butanone | 9.00 | J | 1.30 | 25.0 | ug/L |
| | | | **Total Voc :** | 9.00 | | | | |
| | | | **Total Concentration:** | 9.00 | | | | |
| **Client ID:** | **WC-2(2)** | | | | | | | |
| P4722-18 | WC-2(2) | TCLP | 2-Butanone | 7.40 | J | 1.30 | 25.0 | ug/L |
| | | | **Total Voc :** | 7.40 | | | | |
| | | | **Total Concentration:** | 7.40 | | | | |
| **Client ID:** | **WC-3(5)** | | | | | | | |
| P4722-20 | WC-3(5) | TCLP | 2-Butanone | 11.1 | J | 1.30 | 25.0 | ug/L |
| | | | **Total Voc :** | 11.1 | | | | |
| | | | **Total Concentration:** | 11.1 | | | | |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(3.5) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-02 | Matrix: | TCLP |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | SW5035 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084754.D | 1 | | 11/08/24 16:56 | VN110824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 7.40 | J | 1.30 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.7 | | 74 - 125 | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.1 | | 75 - 124 | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.5 | | 86 - 113 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.3 | | 77 - 121 | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 173000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 305000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 285000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 132000 | 13.788 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(4) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-07 | Matrix: | TCLP |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | SW5035 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084770.D | 1 | | 11/11/24 14:30 | VN111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 8.30 | J | 1.30 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.9 | | 74 - 125 | 96% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.3 | | 75 - 124 | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.0 | | 86 - 113 | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.1 | | 77 - 121 | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 159000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 275000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 255000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 116000 | 13.788 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(3) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-12 | Matrix: | TCLP |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | SW5035 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084771.D | 1 | | 11/11/24 14:54 | VN111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 8.00 | J | 1.30 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.9 | | 74 - 125 | 96% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.0 | | 75 - 124 | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.7 | | 86 - 113 | 95% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.4 | | 77 - 121 | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 166000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 286000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 267000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 113000 | 13.788 | | | |

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(5.5) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-16 | Matrix: | TCLP |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | SW5035 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084772.D | 1 | | 11/11/24 15:18 | VN111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 9.00 | J | 1.30 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.4 | | 74 - 125 | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.6 | | 75 - 124 | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.4 | | 86 - 113 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.7 | | 77 - 121 | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 167000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 290000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 269000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 115000 | 13.788 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(2) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-18 | Matrix: | TCLP |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | SW5035 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084773.D | 1 | | 11/11/24 15:42 | VN111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 7.40 | J | 1.30 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.7 | | 74 - 125 | 97% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.4 | | 75 - 124 | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.5 | | 86 - 113 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.0 | | 77 - 121 | 98% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 172000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 301000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 280000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 128000 | 13.794 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(5) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-20 | Matrix: | TCLP |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | SW5035 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084774.D | 1 | | 11/11/24 16:06 | VN111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 11.1 | J | 1.30 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.3 | | 74 - 125 | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.2 | | 75 - 124 | 96% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.0 | | 86 - 113 | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.3 | | 77 - 121 | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 170000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 300000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 275000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 126000 | 13.788 | | | |

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.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| P4722-02 | WC-1(3.5) | 1,2-Dichloroethane-d4 | 50 | 49.8 | 99 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 49.1 | 98 | 75 | 124 |
| | | Toluene-d8 | 50 | 48.5 | 97 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 50.3 | 101 | 77 | 121 |
| P4722-07 | WC-2(4) | 1,2-Dichloroethane-d4 | 50 | 47.9 | 96 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 48.3 | 97 | 75 | 124 |
| | | Toluene-d8 | 50 | 48.0 | 96 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 50.1 | 100 | 77 | 121 |
| P4722-12 | WC-3(3) | 1,2-Dichloroethane-d4 | 50 | 47.9 | 96 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 49.0 | 98 | 75 | 124 |
| | | Toluene-d8 | 50 | 47.7 | 95 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 48.4 | 97 | 77 | 121 |
| P4722-16 | WC-1(5.5) | 1,2-Dichloroethane-d4 | 50 | 49.4 | 99 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 48.6 | 97 | 75 | 124 |
| | | Toluene-d8 | 50 | 48.4 | 97 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 48.7 | 97 | 77 | 121 |
| P4722-18 | WC-2(2) | 1,2-Dichloroethane-d4 | 50 | 48.7 | 97 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 49.4 | 99 | 75 | 124 |
| | | Toluene-d8 | 50 | 48.5 | 97 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 49.0 | 98 | 77 | 121 |
| P4722-20 | WC-3(5) | 1,2-Dichloroethane-d4 | 50 | 49.3 | 99 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 48.2 | 96 | 75 | 124 |
| | | Toluene-d8 | 50 | 48.0 | 96 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 48.3 | 97 | 77 | 121 |

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# Surrogate Summary

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| VN1108WBL01 | VN1108WBL01 | 1,2-Dichloroethane-d4 | 50 | 48.7 | 97 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 48.9 | 98 | 75 | 124 |
| | | Toluene-d8 | 50 | 45.6 | 91 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 45.9 | 92 | 77 | 121 |
| VN1108WBS01 | VN1108WBS01 | 1,2-Dichloroethane-d4 | 50 | 46.2 | 92 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 47.6 | 95 | 75 | 124 |
| | | Toluene-d8 | 50 | 47.1 | 94 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 50.6 | 101 | 77 | 121 |
| VN1108WBSD0 | VN1108WBSD01 | 1,2-Dichloroethane-d4 | 50 | 47.7 | 95 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 47.1 | 94 | 75 | 124 |
| | | Toluene-d8 | 50 | 47.3 | 95 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 46.8 | 94 | 77 | 121 |
| VN1111WBL01 | VN1111WBL01 | 1,2-Dichloroethane-d4 | 50 | 48.0 | 96 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 49.1 | 98 | 75 | 124 |
| | | Toluene-d8 | 50 | 45.9 | 92 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 48.1 | 96 | 77 | 121 |
| VN1111WBS01 | VN1111WBS01 | 1,2-Dichloroethane-d4 | 50 | 41.8 | 84 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 46.0 | 92 | 75 | 124 |
| | | Toluene-d8 | 50 | 44.8 | 90 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 46.7 | 93 | 77 | 121 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260-Low **Datafile :** VN084740.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN1108WBS01 | Vinyl chloride | 20 | 16.2 | ug/L | 81 | | | 65 | 117 | |
| | 1,1-Dichloroethene | 20 | 16.7 | ug/L | 84 | | | 74 | 110 | |
| | 2-Butanone | 100 | 100 | ug/L | 100 | | | 65 | 122 | |
| | Carbon Tetrachloride | 20 | 19.0 | ug/L | 95 | | | 77 | 113 | |
| | Chloroform | 20 | 18.8 | ug/L | 94 | | | 79 | 113 | |
| | Benzene | 20 | 17.7 | ug/L | 89 | | | 82 | 109 | |
| | 1,2-Dichloroethane | 20 | 19.1 | ug/L | 96 | | | 80 | 115 | |
| | Trichloroethene | 20 | 18.3 | ug/L | 92 | | | 77 | 113 | |
| | Tetrachloroethene | 20 | 18.3 | ug/L | 92 | | | 67 | 123 | |
| | Chlorobenzene | 20 | 17.6 | ug/L | 88 | | | 82 | 109 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260-Low **Datafile :** VN084741.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN1108WBSD01 | Vinyl chloride | 20 | 17.6 | ug/L | 88 | 8 | | 65 | 117 | 20 |
| | 1,1-Dichloroethene | 20 | 17.9 | ug/L | 90 | 7 | | 74 | 110 | 20 |
| | 2-Butanone | 100 | 110 | ug/L | 110 | 10 | | 65 | 122 | 20 |
| | Carbon Tetrachloride | 20 | 19.1 | ug/L | 96 | 1 | | 77 | 113 | 20 |
| | Chloroform | 20 | 19.2 | ug/L | 96 | 2 | | 79 | 113 | 20 |
| | Benzene | 20 | 18.6 | ug/L | 93 | 4 | | 82 | 109 | 20 |
| | 1,2-Dichloroethane | 20 | 19.4 | ug/L | 97 | 1 | | 80 | 115 | 20 |
| | Trichloroethene | 20 | 18.7 | ug/L | 94 | 2 | | 77 | 113 | 20 |
| | Tetrachloroethene | 20 | 19.2 | ug/L | 96 | 4 | | 67 | 123 | 20 |
| | Chlorobenzene | 20 | 18.3 | ug/L | 92 | 4 | | 82 | 109 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260-Low **Datafile :** VN084766.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN1111WBS01 | Vinyl chloride | 20 | 15.4 | ug/L | 77 | | | 65 | 117 | |
| | 1,1-Dichloroethene | 20 | 16.1 | ug/L | 81 | | | 74 | 110 | |
| | 2-Butanone | 100 | 86.1 | ug/L | 86 | | | 65 | 122 | |
| | Carbon Tetrachloride | 20 | 19.0 | ug/L | 95 | | | 77 | 113 | |
| | Chloroform | 20 | 17.7 | ug/L | 89 | | | 79 | 113 | |
| | Benzene | 20 | 17.5 | ug/L | 88 | | | 82 | 109 | |
| | 1,2-Dichloroethane | 20 | 18.3 | ug/L | 92 | | | 80 | 115 | |
| | Trichloroethene | 20 | 17.6 | ug/L | 88 | | | 77 | 113 | |
| | Tetrachloroethene | 20 | 18.4 | ug/L | 92 | | | 67 | 123 | |
| | Chlorobenzene | 20 | 17.8 | ug/L | 89 | | | 82 | 109 | |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1108WBL01

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084739.D Lab Sample ID: VN1108WBL01

Date Analyzed: 11/08/2024 Time Analyzed: 10:44

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

Instrument ID: MSVOA_N

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VN1108WBS01 | VN1108WBS01 | VN084740.D | 11/08/2024 |
| VN1108WBSD01 | VN1108WBSD01 | VN084741.D | 11/08/2024 |
| WC-1(3.5) | P4722-02 | VN084754.D | 11/08/2024 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1111WBL01

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084765.D Lab Sample ID: VN1111WBL01

Date Analyzed: 11/11/2024 Time Analyzed: 12:30

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

Instrument ID: MSVOA_N

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VN1111WBS01 | VN1111WBS01 | VN084766.D | 11/11/2024 |
| WC-2(4) | P4722-07 | VN084770.D | 11/11/2024 |
| WC-3(3) | P4722-12 | VN084771.D | 11/11/2024 |
| WC-1(5.5) | P4722-16 | VN084772.D | 11/11/2024 |
| WC-2(2) | P4722-18 | VN084773.D | 11/11/2024 |
| WC-3(5) | P4722-20 | VN084774.D | 11/11/2024 |

COMMENTS:

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

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084569.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 10:42

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.5 |
| 75 | 30.0 - 60.0% of mass 95 | 50.7 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7.2 |
| 173 | Less than 2.0% of mass 174 | 1.2 ( 1.6 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 73.5 |
| 175 | 5.0 - 9.0% of mass 174 | 5.7 ( 7.7 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 70.1 ( 95.4 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.8 ( 6.9 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC100 | VSTDICC100 | VN084570.D | 10/30/2024 | 11:46 |
| VSTDICCC050 | VSTDICCC050 | VN084571.D | 10/30/2024 | 12:09 |
| VSTDICC020 | VSTDICC020 | VN084572.D | 10/30/2024 | 12:33 |
| VSTDICC010 | VSTDICC010 | VN084573.D | 10/30/2024 | 12:57 |
| VSTDICC005 | VSTDICC005 | VN084574.D | 10/30/2024 | 13:21 |
| VSTDICC001 | VSTDICC001 | VN084575.D | 10/30/2024 | 13:45 |

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

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084736.D BFB Injection Date: 11/08/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:18

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 17.2 |
| 75 | 30.0 - 60.0% of mass 95 | 51.1 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 0.8 ( 1 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 78.5 |
| 175 | 5.0 - 9.0% of mass 174 | 6.6 ( 8.4 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 77.7 ( 99 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.8 ( 6.2 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VN084737.D | 11/08/2024 | 09:39 |
| VN1108WBL01 | VN1108WBL01 | VN084739.D | 11/08/2024 | 10:44 |
| VN1108WBS01 | VN1108WBS01 | VN084740.D | 11/08/2024 | 11:19 |
| VN1108WBSD01 | VN1108WBSD01 | VN084741.D | 11/08/2024 | 11:43 |
| WC-1(3.5) | P4722-02 | VN084754.D | 11/08/2024 | 16:56 |

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

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084762.D BFB Injection Date: 11/11/2024

Instrument ID: MSVOA_N BFB Injection Time: 10:21

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16.1 |
| 75 | 30.0 - 60.0% of mass 95 | 47.1 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7.1 |
| 173 | Less than 2.0% of mass 174 | 0.6 ( 0.8 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 73.1 |
| 175 | 5.0 - 9.0% of mass 174 | 5.8 ( 8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 71.4 ( 97.6 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.6 ( 6.5 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VN084763.D | 11/11/2024 | 10:54 |
| VN1111WBL01 | VN1111WBL01 | VN084765.D | 11/11/2024 | 12:30 |
| VN1111WBS01 | VN1111WBS01 | VN084766.D | 11/11/2024 | 12:54 |
| WC-2(4) | P4722-07 | VN084770.D | 11/11/2024 | 14:30 |
| WC-3(3) | P4722-12 | VN084771.D | 11/11/2024 | 14:54 |
| WC-1(5.5) | P4722-16 | VN084772.D | 11/11/2024 | 15:18 |
| WC-2(2) | P4722-18 | VN084773.D | 11/11/2024 | 15:42 |
| WC-3(5) | P4722-20 | VN084774.D | 11/11/2024 | 16:06 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084737.D Date Analyzed: 11/08/2024

Instrument ID: MSVOA_N Time Analyzed: 09:39

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 183021 | 8.22 | 298323 | 9.10 | 261810 | 11.87 |
| UPPER LIMIT | 366042 | 8.718 | 596646 | 9.6 | 523620 | 12.365 |
| LOWER LIMIT | 91510.5 | 7.718 | 149162 | 8.6 | 130905 | 11.365 |
| EPA SAMPLE NO. | | | | | | |
| WC-1(3.5) | 173136 | 8.22 | 304734 | 9.10 | 285280 | 11.87 |
| VN1108WBL01 | 170398 | 8.22 | 297081 | 9.10 | 255691 | 11.87 |
| VN1108WBS01 | 174962 | 8.22 | 291201 | 9.10 | 262615 | 11.87 |
| VN1108WBSD01 | 163813 | 8.22 | 277196 | 9.09 | 246235 | 11.87 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084737.D Date Analyzed: 11/08/2024

Instrument ID: MSVOA_N Time Analyzed: 09:39

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 135765 | 13.788 | | | | |
| UPPER LIMIT | 271530 | 14.288 | | | | |
| LOWER LIMIT | 67882.5 | 13.288 | | | | |
| EPA SAMPLE NO. | | | | | | |
| WC-1(3.5) | 132176 | 13.79 | | | | |
| VN1108WBL01 | 113797 | 13.79 | | | | |
| VN1108WBS01 | 135553 | 13.79 | | | | |
| VN1108WBSD01 | 120765 | 13.79 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084763.D Date Analyzed: 11/11/2024

Instrument ID: MSVOA_N Time Analyzed: 10:54

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 166446 | 8.22 | 270648 | 9.10 | 238712 | 11.87 |
| UPPER LIMIT | 332892 | 8.718 | 541296 | 9.6 | 477424 | 12.365 |
| LOWER LIMIT | 83223 | 7.718 | 135324 | 8.6 | 119356 | 11.365 |
| EPA SAMPLE NO. | | | | | | |
| WC-2(4) | 158827 | 8.22 | 275321 | 9.10 | 255227 | 11.87 |
| WC-3(3) | 166359 | 8.22 | 285540 | 9.10 | 266633 | 11.87 |
| WC-1(5.5) | 166984 | 8.22 | 289915 | 9.10 | 269271 | 11.87 |
| WC-2(2) | 171996 | 8.22 | 301059 | 9.10 | 280468 | 11.87 |
| WC-3(5) | 169890 | 8.22 | 299832 | 9.10 | 275305 | 11.87 |
| VN1111WBL01 | 167136 | 8.22 | 283115 | 9.10 | 253987 | 11.87 |
| VN1111WBS01 | 167933 | 8.22 | 269161 | 9.10 | 238228 | 11.87 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084763.D Date Analyzed: 11/11/2024

Instrument ID: MSVOA_N Time Analyzed: 10:54

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 124434 | 13.788 | | | | |
| UPPER LIMIT | 248868 | 14.288 | | | | |
| LOWER LIMIT | 62217 | 13.288 | | | | |
| EPA SAMPLE NO. | | | | | | |
| WC-2(4) | 116241 | 13.79 | | | | |
| WC-3(3) | 113376 | 13.79 | | | | |
| WC-1(5.5) | 115191 | 13.79 | | | | |
| WC-2(2) | 127677 | 13.79 | | | | |
| WC-3(5) | 126299 | 13.79 | | | | |
| VN1111WBL01 | 115446 | 13.79 | | | | |
| VN1111WBS01 | 123082 | 13.79 | | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1108WBL01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1108WBL01 | Matrix: | TCLP |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084739.D | 1 | | 11/08/24 10:44 | VN110824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 1.30 | U | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.7 | | 74 - 125 | 97% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.9 | | 75 - 124 | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.6 | | 86 - 113 | 91% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.9 | | 77 - 121 | 92% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 170000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 297000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 256000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 114000 | 13.788 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1111WBL01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1111WBL01 | Matrix: | TCLP |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084765.D | 1 | | 11/11/24 12:30 | VN111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 1.30 | U | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.0 | | 74 - 125 | 96% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.1 | | 75 - 124 | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.9 | | 86 - 113 | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.1 | | 77 - 121 | 96% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 167000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 283000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 254000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 115000 | 13.788 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1108WBS01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1108WBS01 | Matrix: | TCLP |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084740.D | 1 | | 11/08/24 11:19 | VN110824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 16.2 | | 0.34 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 16.7 | | 0.26 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 100 | | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 19.0 | | 0.25 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 18.8 | | 0.26 | 1.00 | ug/L |
| 71-43-2 | Benzene | 17.7 | | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 19.1 | | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 18.3 | | 0.32 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 18.3 | | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 17.6 | | 0.13 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 46.2 | | 74 - 125 | 92% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 47.6 | | 75 - 124 | 95% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.1 | | 86 - 113 | 94% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.6 | | 77 - 121 | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 175000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 291000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 263000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 136000 | 13.788 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1111WBS01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1111WBS01 | Matrix: | TCLP |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084766.D | 1 | | 11/11/24 12:54 | VN111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 15.4 | | 0.34 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 16.1 | | 0.26 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 86.1 | | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 19.0 | | 0.25 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 17.7 | | 0.26 | 1.00 | ug/L |
| 71-43-2 | Benzene | 17.5 | | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 18.3 | | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 17.6 | | 0.32 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 18.4 | | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 17.8 | | 0.13 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 41.8 | | 74 - 125 | 84% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 46.0 | | 75 - 124 | 92% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 44.8 | | 86 - 113 | 90% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.7 | | 77 - 121 | 93% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 168000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 269000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 238000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 123000 | 13.794 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1108WBSD01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1108WBSD01 | Matrix: | TCLP |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084741.D | 1 | | 11/08/24 11:43 | VN110824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-01-4 | Vinyl Chloride | 17.6 | | 0.34 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 17.9 | | 0.26 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 110 | | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 19.1 | | 0.25 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 19.2 | | 0.26 | 1.00 | ug/L |
| 71-43-2 | Benzene | 18.6 | | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 19.4 | | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 18.7 | | 0.32 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 19.2 | | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 18.3 | | 0.13 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.7 | | 74 - 125 | 95% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 47.1 | | 75 - 124 | 94% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.3 | | 86 - 113 | 95% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.8 | | 77 - 121 | 94% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 164000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 277000 | 9.094 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 246000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 121000 | 13.788 | | | |

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

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

# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45

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

LAB FILE ID: RRF100 = VN084570.D RRF050 = VN084571.D RRF020 = VN084572.D
RRF010 = VN084573.D RRF005 = VN084574.D RRF001 = VN084575.D

| COMPOUND | RRF100 | RRF050 | RRF020 | RRF010 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.613 | 0.605 | 0.623 | 0.636 | 0.651 | 0.581 | 0.618 | 4 |
| 1,1-Dichloroethene | 0.548 | 0.538 | 0.560 | 0.575 | 0.552 | 0.644 | 0.569 | 6.8 |
| 2-Butanone | 0.316 | 0.315 | 0.348 | 0.338 | 0.370 | 0.334 | 0.337 | 6.1 |
| Carbon Tetrachloride | 0.530 | 0.514 | 0.532 | 0.548 | 0.537 | 0.488 | 0.525 | 4 |
| Chloroform | 1.099 | 1.086 | 1.142 | 1.154 | 1.222 | 1.025 | 1.121 | 6 |
| Benzene | 1.494 | 1.448 | 1.509 | 1.507 | 1.546 | 1.540 | 1.507 | 2.4 |
| 1,2-Dichloroethane | 0.488 | 0.494 | 0.493 | 0.492 | 0.503 | 0.459 | 0.488 | 3.1 |
| Trichloroethene | 0.339 | 0.335 | 0.345 | 0.338 | 0.341 | 0.387 | 0.348 | 5.7 |
| Tetrachloroethene | 0.326 | 0.313 | 0.333 | 0.347 | 0.351 | 0.325 | 0.333 | 4.3 |
| Chlorobenzene | 1.068 | 1.061 | 1.149 | 1.123 | 1.165 | 1.146 | 1.119 | 3.9 |
| 1,2-Dichloroethane-d4 | 0.689 | 0.721 | 0.708 | 0.722 | 0.771 | | 0.722 | 4.2 |
| Dibromofluoromethane | 0.334 | 0.344 | 0.326 | 0.336 | 0.353 | | 0.338 | 3.1 |
| Toluene-d8 | 1.267 | 1.303 | 1.216 | 1.231 | 1.217 | | 1.247 | 3 |
| 4-Bromofluorobenzene | 0.481 | 0.493 | 0.450 | 0.451 | 0.454 | | 0.466 | 4.3 |

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_N Calibration Date/Time: 11/08/2024 09:39

Lab File ID: VN084737.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Vinyl Chloride | 0.618 | 0.547 | | -11.49 | 20 |
| 1,1-Dichloroethene | 0.569 | 0.508 | | -10.72 | 20 |
| 2-Butanone | 0.337 | 0.361 | | 7.12 | 20 |
| Carbon Tetrachloride | 0.525 | 0.529 | | 0.76 | 20 |
| Chloroform | 1.121 | 1.095 | | -2.32 | 20 |
| Benzene | 1.507 | 1.426 | | -5.38 | 20 |
| 1,2-Dichloroethane | 0.488 | 0.484 | | -0.82 | 20 |
| Trichloroethene | 0.348 | 0.335 | | -3.74 | 20 |
| Tetrachloroethene | 0.333 | 0.341 | | 2.4 | 20 |
| Chlorobenzene | 1.119 | 1.084 | 0.3 | -3.13 | 20 |
| 1,2-Dichloroethane-d4 | 0.722 | 0.672 | | -6.93 | 20 |
| Dibromofluoromethane | 0.338 | 0.337 | | -0.3 | 20 |
| Toluene-d8 | 1.247 | 1.241 | | -0.48 | 20 |
| 4-Bromofluorobenzene | 0.466 | 0.466 | | 0 | 20 |

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_N Calibration Date/Time: 11/11/2024 10:54

Lab File ID: VN084763.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Vinyl Chloride | 0.618 | 0.542 | | -12.3 | 20 |
| 1,1-Dichloroethene | 0.569 | 0.521 | | -8.44 | 20 |
| 2-Butanone | 0.337 | 0.376 | | 11.57 | 20 |
| Carbon Tetrachloride | 0.525 | 0.542 | | 3.24 | 20 |
| Chloroform | 1.121 | 1.129 | | 0.71 | 20 |
| Benzene | 1.507 | 1.478 | | -1.92 | 20 |
| 1,2-Dichloroethane | 0.488 | 0.503 | | 3.07 | 20 |
| Trichloroethene | 0.348 | 0.337 | | -3.16 | 20 |
| Tetrachloroethene | 0.333 | 0.338 | | 1.5 | 20 |
| Chlorobenzene | 1.119 | 1.110 | 0.3 | -0.8 | 20 |
| 1,2-Dichloroethane-d4 | 0.722 | 0.679 | | -5.96 | 20 |
| Dibromofluoromethane | 0.338 | 0.342 | | 1.18 | 20 |
| Toluene-d8 | 1.247 | 1.214 | | -2.65 | 20 |
| 4-Bromofluorobenzene | 0.466 | 0.484 | | 3.86 | 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:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-02** | **WC-1(3.5)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/08/24 | |
| **P4722-05** | **WC-1(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP VOA | 8260D | | | 11/13/24 | |
| **P4722-07** | **WC-2(4)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |
| **P4722-10** | **WC-2(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP VOA | 8260D | | | 11/13/24 | |
| **P4722-12** | **WC-3(3)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |
| **P4722-15** | **WC-3(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP VOA | 8260D | | | 11/13/24 | |
| **P4722-16** | **WC-1(5.5)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |
| **P4722-18** | **WC-2(2)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |
| **P4722-20** | **WC-3(5)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP VOA | 8260D | | | 11/11/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **WC-1(0-6)** | | | | | | | |
| P4722-05 | WC-1(0-6) | WATER | Acetone | 7.40 | J | 1.40 | 25.0 | ug/L |
| P4722-05 | WC-1(0-6) | WATER | Methylene Chloride | 3.20 | J | 0.32 | 5.00 | ug/L |
| P4722-05 | WC-1(0-6) | WATER | 1,2,4-Trichlorobenzene | 1.00 | J | 0.42 | 5.00 | ug/L |
| P4722-05 | WC-1(0-6) | WATER | 1,2,3-Trichlorobenzene | 1.10 | J | 0.51 | 5.00 | ug/L |
| | | | **Total Voc :** | 12.7 | | | | |
| | | | **Total Concentration:** | 12.7 | | | | |
| **Client ID:** | **WC-2(0-6)** | | | | | | | |
| P4722-10 | WC-2(0-6) | WATER | Acetone | 6.10 | J | 1.40 | 25.0 | ug/L |
| P4722-10 | WC-2(0-6) | WATER | Methylene Chloride | 15.5 | | 0.32 | 5.00 | ug/L |
| | | | **Total Voc :** | 21.6 | | | | |
| | | | **Total Concentration:** | 21.6 | | | | |
| **Client ID:** | **WC-3(0-6)** | | | | | | | |
| P4722-15 | WC-3(0-6) | WATER | Methylene Chloride | 1.30 | J | 0.32 | 5.00 | ug/L |
| | | | **Total Voc :** | 1.30 | | | | |
| | | | **Total Concentration:** | 1.30 | | | | |

# SAMPLE DATA

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-05 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084824.D | 1 | | 11/13/24 14:24 | VN111324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | U | 0.21 | 5.00 | ug/L |
| 74-87-3 | Chloromethane | 0.35 | U | 0.35 | 5.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 5.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.56 | U | 0.56 | 5.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.34 | U | 0.34 | 5.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 5.00 | ug/L |
| 67-64-1 | Acetone | 7.40 | J | 1.40 | 25.0 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.32 | U | 0.32 | 5.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 5.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.60 | U | 0.60 | 5.00 | ug/L |
| 75-09-2 | Methylene Chloride | 3.20 | J | 0.32 | 5.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 5.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.60 | U | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 1.30 | U | 1.30 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.18 | U | 0.18 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 5.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.19 | U | 0.19 | 5.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.19 | U | 0.19 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 5.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.19 | U | 0.19 | 5.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.75 | U | 0.75 | 25.0 | ug/L |
| 108-88-3 | Toluene | 0.18 | U | 0.18 | 5.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-05 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084824.D | 1 | | 11/13/24 14:24 | VN111324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.21 | U | 0.21 | 5.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.18 | U | 0.18 | 5.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 5.00 | ug/L |
| 591-78-6 | 2-Hexanone | 1.10 | U | 1.10 | 25.0 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | UQ | 0.18 | 5.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.16 | U | 0.16 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.31 | U | 0.31 | 10.0 | ug/L |
| 95-47-6 | o-Xylene | 0.14 | UQ | 0.14 | 5.00 | ug/L |
| 100-42-5 | Styrene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 75-25-2 | Bromoform | 0.21 | U | 0.21 | 5.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.27 | U | 0.27 | 5.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.24 | U | 0.24 | 5.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.27 | U | 0.27 | 5.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.19 | U | 0.19 | 5.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.46 | U | 0.46 | 5.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.00 | J | 0.42 | 5.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.10 | J | 0.51 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.3 | | 74 - 125 | 97% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 47.8 | | 75 - 124 | 96% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.8 | | 86 - 113 | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.8 | | 77 - 121 | 94% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 159000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 275000 | 9.094 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 235000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 107000 | 13.788 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-05 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084824.D | 1 | | 11/13/24 14:24 | VN111324 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-10 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084825.D | 1 | | 11/13/24 14:48 | VN111324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | U | 0.21 | 5.00 | ug/L |
| 74-87-3 | Chloromethane | 0.35 | U | 0.35 | 5.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 5.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.56 | U | 0.56 | 5.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.34 | U | 0.34 | 5.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 5.00 | ug/L |
| 67-64-1 | Acetone | 6.10 | J | 1.40 | 25.0 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.32 | U | 0.32 | 5.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 5.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.60 | U | 0.60 | 5.00 | ug/L |
| 75-09-2 | Methylene Chloride | 15.5 | | 0.32 | 5.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 5.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.60 | U | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 1.30 | U | 1.30 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.18 | U | 0.18 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 5.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.19 | U | 0.19 | 5.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.19 | U | 0.19 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 5.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.19 | U | 0.19 | 5.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.75 | U | 0.75 | 25.0 | ug/L |
| 108-88-3 | Toluene | 0.18 | U | 0.18 | 5.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-10 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084825.D | 1 | | 11/13/24 14:48 | VN111324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.21 | U | 0.21 | 5.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.18 | U | 0.18 | 5.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 5.00 | ug/L |
| 591-78-6 | 2-Hexanone | 1.10 | U | 1.10 | 25.0 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | UQ | 0.18 | 5.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.16 | U | 0.16 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.31 | U | 0.31 | 10.0 | ug/L |
| 95-47-6 | o-Xylene | 0.14 | UQ | 0.14 | 5.00 | ug/L |
| 100-42-5 | Styrene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 75-25-2 | Bromoform | 0.21 | U | 0.21 | 5.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.27 | U | 0.27 | 5.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.24 | U | 0.24 | 5.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.27 | U | 0.27 | 5.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.19 | U | 0.19 | 5.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.46 | U | 0.46 | 5.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.42 | U | 0.42 | 5.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.51 | U | 0.51 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.9 | | 74 - 125 | 96% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.4 | | 75 - 124 | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.9 | | 86 - 113 | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.3 | | 77 - 121 | 93% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 172000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 295000 | 9.094 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 255000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 118000 | 13.788 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-10 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084825.D | 1 | | 11/13/24 14:48 | VN111324 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084826.D | 1 | | 11/13/24 15:12 | VN111324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | U | 0.21 | 5.00 | ug/L |
| 74-87-3 | Chloromethane | 0.35 | U | 0.35 | 5.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 5.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.56 | U | 0.56 | 5.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.34 | U | 0.34 | 5.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 5.00 | ug/L |
| 67-64-1 | Acetone | 1.40 | U | 1.40 | 25.0 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.32 | U | 0.32 | 5.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 5.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.60 | U | 0.60 | 5.00 | ug/L |
| 75-09-2 | Methylene Chloride | 1.30 | J | 0.32 | 5.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 5.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.60 | U | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 1.30 | U | 1.30 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 5.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.18 | U | 0.18 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 5.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.19 | U | 0.19 | 5.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.19 | U | 0.19 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 5.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.19 | U | 0.19 | 5.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.24 | U | 0.24 | 5.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.75 | U | 0.75 | 25.0 | ug/L |
| 108-88-3 | Toluene | 0.18 | U | 0.18 | 5.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084826.D | 1 | | 11/13/24 15:12 | VN111324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.21 | U | 0.21 | 5.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.18 | U | 0.18 | 5.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 5.00 | ug/L |
| 591-78-6 | 2-Hexanone | 1.10 | U | 1.10 | 25.0 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | UQ | 0.18 | 5.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.16 | U | 0.16 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.31 | U | 0.31 | 10.0 | ug/L |
| 95-47-6 | o-Xylene | 0.14 | UQ | 0.14 | 5.00 | ug/L |
| 100-42-5 | Styrene | 0.16 | U | 0.16 | 5.00 | ug/L |
| 75-25-2 | Bromoform | 0.21 | U | 0.21 | 5.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.13 | U | 0.13 | 5.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.27 | U | 0.27 | 5.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.24 | U | 0.24 | 5.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.27 | U | 0.27 | 5.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.19 | U | 0.19 | 5.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.46 | U | 0.46 | 5.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.42 | U | 0.42 | 5.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.51 | U | 0.51 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 46.5 | | 74 - 125 | 93% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.3 | | 75 - 124 | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.9 | | 86 - 113 | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.8 | | 77 - 121 | 90% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 181000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 309000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 269000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 122000 | 13.788 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084826.D | 1 | | 11/13/24 15:12 | VN111324 |

| 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.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| P4722-05 | WC-1(0-6) | 1,2-Dichloroethane-d4 | 50 | 48.3 | 97 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 47.8 | 96 | 75 | 124 |
| | | Toluene-d8 | 50 | 45.8 | 92 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 46.8 | 94 | 77 | 121 |
| P4722-10 | WC-2(0-6) | 1,2-Dichloroethane-d4 | 50 | 47.9 | 96 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 48.4 | 97 | 75 | 124 |
| | | Toluene-d8 | 50 | 45.9 | 92 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 46.3 | 93 | 77 | 121 |
| P4722-15 | WC-3(0-6) | 1,2-Dichloroethane-d4 | 50 | 46.5 | 93 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 48.3 | 97 | 75 | 124 |
| | | Toluene-d8 | 50 | 45.9 | 92 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.8 | 90 | 77 | 121 |

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# Surrogate Summary

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| VN1113WBL01 | VN1113WBL01 | 1,2-Dichloroethane-d4 | 50 | 49.5 | 99 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.0 | 100 | 75 | 124 |
| | | Toluene-d8 | 50 | 46.6 | 93 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 45.8 | 92 | 77 | 121 |
| VN1113WBS01 | VN1113WBS01 | 1,2-Dichloroethane-d4 | 50 | 46.4 | 93 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 49.9 | 100 | 75 | 124 |
| | | Toluene-d8 | 50 | 49.2 | 98 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 51.2 | 102 | 77 | 121 |
| VN1113WBSD0 | VN1113WBSD01 | 1,2-Dichloroethane-d4 | 50 | 45.4 | 91 | 74 | 125 |
| | | Dibromofluoromethane | 50 | 48.6 | 97 | 75 | 124 |
| | | Toluene-d8 | 50 | 47.8 | 96 | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 51.0 | 102 | 77 | 121 |

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Fax : 908 789 8922

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260-Low **Datafile :** VN084822.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN1113WBS01 | Dichlorodifluoromethane | 20 | 17.7 | ug/L | 89 | | | 69 | 116 | |
| | Chloromethane | 20 | 15.0 | ug/L | 75 | | | 65 | 116 | |
| | Vinyl chloride | 20 | 20.1 | ug/L | 101 | | | 65 | 117 | |
| | Bromomethane | 20 | 19.6 | ug/L | 98 | | | 58 | 125 | |
| | Chloroethane | 20 | 20.9 | ug/L | 104 | | | 56 | 128 | |
| | Trichlorofluoromethane | 20 | 18.3 | ug/L | 92 | | | 73 | 115 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 18.4 | ug/L | 92 | | | 80 | 112 | |
| | 1,1-Dichloroethene | 20 | 17.5 | ug/L | 88 | | | 74 | 110 | |
| | Acetone | 100 | 89.8 | ug/L | 90 | | | 60 | 125 | |
| | Carbon disulfide | 20 | 15.6 | ug/L | 78 | | | 64 | 112 | |
| | Methyl tert-butyl Ether | 20 | 18.8 | ug/L | 94 | | | 78 | 114 | |
| | Methyl Acetate | 20 | 13.3 | ug/L | 67 | | | 67 | 125 | |
| | Methylene Chloride | 20 | 17.5 | ug/L | 88 | | | 72 | 114 | |
| | trans-1,2-Dichloroethene | 20 | 17.5 | ug/L | 88 | | | 75 | 108 | |
| | 1,1-Dichloroethane | 20 | 18.0 | ug/L | 90 | | | 78 | 112 | |
| | Cyclohexane | 20 | 18.1 | ug/L | 91 | | | 75 | 110 | |
| | 2-Butanone | 100 | 91.6 | ug/L | 92 | | | 65 | 122 | |
| | Carbon Tetrachloride | 20 | 20.1 | ug/L | 101 | | | 77 | 113 | |
| | cis-1,2-Dichloroethene | 20 | 18.3 | ug/L | 92 | | | 77 | 110 | |
| | Bromochloromethane | 20 | 20.9 | ug/L | 104 | | | 70 | 124 | |
| | Chloroform | 20 | 18.9 | ug/L | 95 | | | 79 | 113 | |
| | 1,1,1-Trichloroethane | 20 | 18.9 | ug/L | 95 | | | 80 | 108 | |
| | Methylcyclohexane | 20 | 19.8 | ug/L | 99 | | | 72 | 115 | |
| | Benzene | 20 | 18.5 | ug/L | 93 | | | 82 | 109 | |
| | 1,2-Dichloroethane | 20 | 19.0 | ug/L | 95 | | | 80 | 115 | |
| | Trichloroethene | 20 | 19.2 | ug/L | 96 | | | 77 | 113 | |
| | 1,2-Dichloropropane | 20 | 19.3 | ug/L | 97 | | | 83 | 111 | |
| | Bromodichloromethane | 20 | 19.3 | ug/L | 97 | | | 83 | 110 | |
| | 4-Methyl-2-Pentanone | 100 | 98.0 | ug/L | 98 | | | 74 | 118 | |
| | Toluene | 20 | 20.0 | ug/L | 100 | | | 82 | 110 | |
| | t-1,3-Dichloropropene | 20 | 18.2 | ug/L | 91 | | | 79 | 110 | |
| | cis-1,3-Dichloropropene | 20 | 19.2 | ug/L | 96 | | | 82 | 110 | |
| | 1,1,2-Trichloroethane | 20 | 19.5 | ug/L | 98 | | | 83 | 112 | |
| | 2-Hexanone | 100 | 99.3 | ug/L | 99 | | | 73 | 117 | |
| | Dibromochloromethane | 20 | 19.6 | ug/L | 98 | | | 82 | 110 | |
| | 1,2-Dibromoethane | 20 | 19.1 | ug/L | 96 | | | 81 | 110 | |
| | Tetrachloroethene | 20 | 20.6 | ug/L | 103 | | | 67 | 123 | |
| | Chlorobenzene | 20 | 18.9 | ug/L | 95 | | | 82 | 109 | |
| | Ethyl Benzene | 20 | 19.7 | ug/L | 99 | | | 83 | 109 | |
| | m/p-Xylenes | 40 | 39.9 | ug/L | 100 | | | 82 | 110 | |
| | o-Xylene | 20 | 20.9 | ug/L | 104 | | | 83 | 109 | |
| | Styrene | 20 | 19.8 | ug/L | 99 | | | 80 | 111 | |
| | Bromoform | 20 | 19.5 | ug/L | 98 | | | 79 | 109 | |
| | Isopropylbenzene | 20 | 19.1 | ug/L | 96 | | | 83 | 112 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 17.5 | ug/L | 88 | | | 76 | 118 | |
| | 1,3-Dichlorobenzene | 20 | 16.9 | ug/L | 85 | | | 82 | 108 | |
| | 1,4-Dichlorobenzene | 20 | 18.5 | ug/L | 93 | | | 82 | 107 | |
| | 1,2-Dichlorobenzene | 20 | 17.8 | ug/L | 89 | | | 82 | 109 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260-Low **Datafile :** VN084822.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN1113WBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 16.2 | ug/L | 81 | | | 68 | 112 | |
| | 1,2,4-Trichlorobenzene | 20 | 16.1 | ug/L | 81 | | | 75 | 113 | |
| | 1,2,3-Trichlorobenzene | 20 | 15.7 | ug/L | 79 | | | 76 | 114 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260-Low **Datafile :** VN084823.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN1113WBSD01 | Dichlorodifluoromethane | 20 | 20.5 | ug/L | 103 | 15 | | 69 | 116 | 20 |
| | Chloromethane | 20 | 17.0 | ug/L | 85 | 13 | | 65 | 116 | 20 |
| | Vinyl chloride | 20 | 21.9 | ug/L | 110 | 9 | | 65 | 117 | 20 |
| | Bromomethane | 20 | 21.4 | ug/L | 107 | 9 | | 58 | 125 | 20 |
| | Chloroethane | 20 | 22.6 | ug/L | 113 | 8 | | 56 | 128 | 20 |
| | Trichlorofluoromethane | 20 | 20.9 | ug/L | 104 | 12 | | 73 | 115 | 20 |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.3 | ug/L | 106 | 14 | | 80 | 112 | 20 |
| | 1,1-Dichloroethene | 20 | 19.8 | ug/L | 99 | 12 | | 74 | 110 | 20 |
| | Acetone | 100 | 100 | ug/L | 100 | 11 | | 60 | 125 | 20 |
| | Carbon disulfide | 20 | 18.2 | ug/L | 91 | 15 | | 64 | 112 | 20 |
| | Methyl tert-butyl Ether | 20 | 21.4 | ug/L | 107 | 13 | | 78 | 114 | 20 |
| | Methyl Acetate | 20 | 16.3 | ug/L | 81 | 19 | | 67 | 125 | 20 |
| | Methylene Chloride | 20 | 20.5 | ug/L | 103 | 16 | | 72 | 114 | 20 |
| | trans-1,2-Dichloroethene | 20 | 20.1 | ug/L | 101 | 14 | | 75 | 108 | 20 |
| | 1,1-Dichloroethane | 20 | 20.1 | ug/L | 101 | 12 | | 78 | 112 | 20 |
| | Cyclohexane | 20 | 20.4 | ug/L | 102 | 11 | | 75 | 110 | 20 |
| | 2-Butanone | 100 | 100 | ug/L | 100 | 8 | | 65 | 122 | 20 |
| | Carbon Tetrachloride | 20 | 21.9 | ug/L | 110 | 9 | | 77 | 113 | 20 |
| | cis-1,2-Dichloroethene | 20 | 20.5 | ug/L | 103 | 11 | | 77 | 110 | 20 |
| | Bromochloromethane | 20 | 20.9 | ug/L | 104 | 0 | | 70 | 124 | 20 |
| | Chloroform | 20 | 21.5 | ug/L | 108 | 13 | | 79 | 113 | 20 |
| | 1,1,1-Trichloroethane | 20 | 21.0 | ug/L | 105 | 10 | | 80 | 108 | 20 |
| | Methylcyclohexane | 20 | 21.8 | ug/L | 109 | 10 | | 72 | 115 | 20 |
| | Benzene | 20 | 20.7 | ug/L | 104 | 11 | | 82 | 109 | 20 |
| | 1,2-Dichloroethane | 20 | 21.5 | ug/L | 108 | 13 | | 80 | 115 | 20 |
| | Trichloroethene | 20 | 22.3 | ug/L | 112 | 15 | | 77 | 113 | 20 |
| | 1,2-Dichloropropane | 20 | 21.0 | ug/L | 105 | 8 | | 83 | 111 | 20 |
| | Bromodichloromethane | 20 | 21.4 | ug/L | 107 | 10 | | 83 | 110 | 20 |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/L | 110 | 12 | | 74 | 118 | 20 |
| | Toluene | 20 | 21.4 | ug/L | 107 | 7 | | 82 | 110 | 20 |
| | t-1,3-Dichloropropene | 20 | 20.5 | ug/L | 103 | 12 | | 79 | 110 | 20 |
| | cis-1,3-Dichloropropene | 20 | 21.0 | ug/L | 105 | 9 | | 82 | 110 | 20 |
| | 1,1,2-Trichloroethane | 20 | 21.2 | ug/L | 106 | 8 | | 83 | 112 | 20 |
| | 2-Hexanone | 100 | 110 | ug/L | 110 | 11 | | 73 | 117 | 20 |
| | Dibromochloromethane | 20 | 23.0 | ug/L | 115 | 16 | * | 82 | 110 | 20 |
| | 1,2-Dibromoethane | 20 | 20.8 | ug/L | 104 | 8 | | 81 | 110 | 20 |
| | Tetrachloroethene | 20 | 22.0 | ug/L | 110 | 7 | | 67 | 123 | 20 |
| | Chlorobenzene | 20 | 20.5 | ug/L | 103 | 8 | | 82 | 109 | 20 |
| | Ethyl Benzene | 20 | 21.0 | ug/L | 105 | 6 | | 83 | 109 | 20 |
| | m/p-Xylenes | 40 | 42.9 | ug/L | 107 | 7 | | 82 | 110 | 20 |
| | o-Xylene | 20 | 22.0 | ug/L | 110 | 6 | * | 83 | 109 | 20 |
| | Styrene | 20 | 21.5 | ug/L | 108 | 9 | | 80 | 111 | 20 |
| | Bromoform | 20 | 21.7 | ug/L | 109 | 11 | | 79 | 109 | 20 |
| | Isopropylbenzene | 20 | 19.9 | ug/L | 100 | 4 | | 83 | 112 | 20 |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.8 | ug/L | 94 | 7 | | 76 | 118 | 20 |
| | 1,3-Dichlorobenzene | 20 | 18.4 | ug/L | 92 | 8 | | 82 | 108 | 20 |
| | 1,4-Dichlorobenzene | 20 | 19.7 | ug/L | 99 | 6 | | 82 | 107 | 20 |
| | 1,2-Dichlorobenzene | 20 | 18.6 | ug/L | 93 | 4 | | 82 | 109 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8260-Low **Datafile :** VN084823.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VN1113WBSD01 | 1,2-Dibromo-3-Chloropropane | 20 | 19.1 | ug/L | 96 | 17 | | 68 | 112 | 20 |
| | 1,2,4-Trichlorobenzene | 20 | 17.8 | ug/L | 89 | 9 | | 75 | 113 | 20 |
| | 1,2,3-Trichlorobenzene | 20 | 17.3 | ug/L | 86 | 8 | | 76 | 114 | 20 |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1113WBL01

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084817.D Lab Sample ID: VN1113WBL01

Date Analyzed: 11/13/2024 Time Analyzed: 10:50

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

Instrument ID: MSVOA_N

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VN1113WBS01 | VN1113WBS01 | VN084822.D | 11/13/2024 |
| VN1113WBSD01 | VN1113WBSD01 | VN084823.D | 11/13/2024 |
| WC-1(0-6) | P4722-05 | VN084824.D | 11/13/2024 |
| WC-2(0-6) | P4722-10 | VN084825.D | 11/13/2024 |
| WC-3(0-6) | P4722-15 | VN084826.D | 11/13/2024 |

COMMENTS:

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

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084569.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 10:42

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.5 |
| 75 | 30.0 - 60.0% of mass 95 | 50.7 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7.2 |
| 173 | Less than 2.0% of mass 174 | 1.2 ( 1.6 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 73.5 |
| 175 | 5.0 - 9.0% of mass 174 | 5.7 ( 7.7 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 70.1 ( 95.4 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.8 ( 6.9 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC100 | VSTDICC100 | VN084570.D | 10/30/2024 | 11:46 |
| VSTDICCC050 | VSTDICCC050 | VN084571.D | 10/30/2024 | 12:09 |
| VSTDICC020 | VSTDICC020 | VN084572.D | 10/30/2024 | 12:33 |
| VSTDICC010 | VSTDICC010 | VN084573.D | 10/30/2024 | 12:57 |
| VSTDICC005 | VSTDICC005 | VN084574.D | 10/30/2024 | 13:21 |
| VSTDICC001 | VSTDICC001 | VN084575.D | 10/30/2024 | 13:45 |

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

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084814.D BFB Injection Date: 11/13/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:53

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

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 17.2 |
| 75 | 30.0 - 60.0% of mass 95 | 50.4 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.3 |
| 173 | Less than 2.0% of mass 174 | 0.7 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 76.3 |
| 175 | 5.0 - 9.0% of mass 174 | 5.7 ( 7.5 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 75.8 ( 99.3 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5 ( 6.6 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VN084815.D | 11/13/2024 | 09:52 |
| VN1113WBL01 | VN1113WBL01 | VN084817.D | 11/13/2024 | 10:50 |
| VN1113WBS01 | VN1113WBS01 | VN084822.D | 11/13/2024 | 13:24 |
| VN1113WBSD01 | VN1113WBSD01 | VN084823.D | 11/13/2024 | 14:00 |
| WC-1(0-6) | P4722-05 | VN084824.D | 11/13/2024 | 14:24 |
| WC-2(0-6) | P4722-10 | VN084825.D | 11/13/2024 | 14:48 |
| WC-3(0-6) | P4722-15 | VN084826.D | 11/13/2024 | 15:12 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084815.D Date Analyzed: 11/13/2024

Instrument ID: MSVOA_N Time Analyzed: 09:52

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

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 176295 | 8.22 | 281546 | 9.09 | 243058 | 11.87 |
| UPPER LIMIT | 352590 | 8.718 | 563092 | 9.594 | 486116 | 12.365 |
| LOWER LIMIT | 88147.5 | 7.718 | 140773 | 8.594 | 121529 | 11.365 |
| EPA SAMPLE NO. | | | | | | |
| WC-1(0-6) | 158761 | 8.22 | 275207 | 9.09 | 235054 | 11.87 |
| WC-2(0-6) | 172472 | 8.22 | 295434 | 9.09 | 255475 | 11.87 |
| WC-3(0-6) | 181188 | 8.22 | 309126 | 9.10 | 268522 | 11.87 |
| VN1113WBL01 | 177026 | 8.22 | 303081 | 9.09 | 266497 | 11.87 |
| VN1113WBS01 | 193540 | 8.22 | 311172 | 9.10 | 273249 | 11.87 |
| VN1113WBSD01 | 144835 | 8.22 | 235271 | 9.10 | 211677 | 11.87 |

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: VN084815.D Date Analyzed: 11/13/2024

Instrument ID: MSVOA_N Time Analyzed: 09:52

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

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 126719 | 13.788 | | | | |
| UPPER LIMIT | 253438 | 14.288 | | | | |
| LOWER LIMIT | 63359.5 | 13.288 | | | | |
| EPA SAMPLE NO. | | | | | | |
| WC-1(0-6) | 107145 | 13.79 | | | | |
| WC-2(0-6) | 118407 | 13.79 | | | | |
| WC-3(0-6) | 121632 | 13.79 | | | | |
| VN1113WBL01 | 115573 | 13.79 | | | | |
| VN1113WBS01 | 141208 | 13.79 | | | | |
| VN1113WBSD01 | 110546 | 13.79 | | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1113WBL01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1113WBL01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084817.D | 1 | | 11/13/24 10:50 | VN111324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.35 | U | 0.35 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.34 | U | 0.34 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.56 | U | 0.56 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.34 | U | 0.34 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.26 | U | 0.26 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.32 | U | 0.32 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.60 | U | 0.60 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.32 | U | 0.32 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.60 | U | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 1.30 | U | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.26 | U | 0.26 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.24 | U | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.32 | U | 0.32 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.19 | U | 0.19 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.24 | U | 0.24 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.75 | U | 0.75 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.18 | U | 0.18 | 1.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1113WBL01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1113WBL01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084817.D | 1 | | 11/13/24 10:50 | VN111324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.21 | U | 0.21 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.18 | U | 0.18 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | U | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.31 | U | 0.31 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.14 | U | 0.14 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.21 | U | 0.21 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.27 | U | 0.27 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.24 | U | 0.24 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.27 | U | 0.27 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.46 | U | 0.46 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.42 | U | 0.42 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.51 | U | 0.51 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.5 | | 74 - 125 | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.0 | | 75 - 124 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.6 | | 86 - 113 | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.8 | | 77 - 121 | 92% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 177000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 303000 | 9.094 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 266000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 116000 | 13.788 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1113WBL01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1113WBL01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084817.D | 1 | | 11/13/24 10:50 | VN111324 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1113WBS01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1113WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084822.D | 1 | | 11/13/24 13:24 | VN111324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 17.7 | | 0.21 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 15.0 | | 0.35 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 20.1 | | 0.34 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 19.6 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 20.9 | | 0.56 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 18.3 | | 0.34 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 18.4 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 17.5 | | 0.26 | 1.00 | ug/L |
| 67-64-1 | Acetone | 89.8 | | 1.40 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 15.6 | | 0.32 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 18.8 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 13.3 | | 0.60 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 17.5 | | 0.32 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 17.5 | | 0.25 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 18.0 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 18.1 | | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 91.6 | | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 20.1 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 18.3 | | 0.25 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 20.9 | | 0.18 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 18.9 | | 0.26 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 18.9 | | 0.19 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 19.8 | | 0.19 | 1.00 | ug/L |
| 71-43-2 | Benzene | 18.5 | | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 19.0 | | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 19.2 | | 0.32 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 19.3 | | 0.19 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 19.3 | | 0.24 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 98.0 | | 0.75 | 5.00 | ug/L |
| 108-88-3 | Toluene | 20.0 | | 0.18 | 1.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1113WBS01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1113WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084822.D | 1 | | 11/13/24 13:24 | VN111324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 18.2 | | 0.21 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 19.2 | | 0.18 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 19.5 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 99.3 | | 1.10 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 19.6 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 19.1 | | 0.16 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 20.6 | | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 18.9 | | 0.13 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 19.7 | | 0.16 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 39.9 | | 0.31 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 20.9 | | 0.14 | 1.00 | ug/L |
| 100-42-5 | Styrene | 19.8 | | 0.16 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 19.5 | | 0.21 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 19.1 | | 0.13 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 17.5 | | 0.27 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 16.9 | | 0.24 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 18.5 | | 0.27 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 17.8 | | 0.19 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 16.2 | | 0.46 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 16.1 | | 0.42 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 15.7 | | 0.51 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 46.4 | | 74 - 125 | 93% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.9 | | 75 - 124 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.2 | | 86 - 113 | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.2 | | 77 - 121 | 102% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 194000 | 8.224 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 311000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 273000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 141000 | 13.788 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1113WBS01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1113WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084822.D | 1 | | 11/13/24 13:24 | VN111324 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1113WBSD01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1113WBSD01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084823.D | 1 | | 11/13/24 14:00 | VN111324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 20.5 | | 0.21 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 17.0 | | 0.35 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 21.9 | | 0.34 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 21.4 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 22.6 | | 0.56 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 20.9 | | 0.34 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.3 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 19.8 | | 0.26 | 1.00 | ug/L |
| 67-64-1 | Acetone | 100 | | 1.40 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 18.2 | | 0.32 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 21.4 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 16.3 | | 0.60 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 20.5 | | 0.32 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 20.1 | | 0.25 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 20.1 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 20.4 | | 1.60 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 100 | | 1.30 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 21.9 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 20.5 | | 0.25 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 20.9 | | 0.18 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 21.5 | | 0.26 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 21.0 | | 0.19 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 21.8 | | 0.19 | 1.00 | ug/L |
| 71-43-2 | Benzene | 20.7 | | 0.16 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 21.5 | | 0.24 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 22.3 | | 0.32 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 21.0 | | 0.19 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 21.4 | | 0.24 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 0.75 | 5.00 | ug/L |
| 108-88-3 | Toluene | 21.4 | | 0.18 | 1.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1113WBSD01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1113WBSD01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084823.D | 1 | | 11/13/24 14:00 | VN111324 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 20.5 | | 0.21 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 21.0 | | 0.18 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 21.2 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 110 | | 1.10 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 23.0 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 20.8 | | 0.16 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 22.0 | | 0.25 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 20.5 | | 0.13 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 21.0 | | 0.16 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 42.9 | | 0.31 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 22.0 | | 0.14 | 1.00 | ug/L |
| 100-42-5 | Styrene | 21.5 | | 0.16 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 21.7 | | 0.21 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 19.9 | | 0.13 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18.8 | | 0.27 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 18.4 | | 0.24 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 19.7 | | 0.27 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 18.6 | | 0.19 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.1 | | 0.46 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 17.8 | | 0.42 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 17.3 | | 0.51 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 45.4 | | 74 - 125 | 91% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.6 | | 75 - 124 | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.8 | | 86 - 113 | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.0 | | 77 - 121 | 102% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 145000 | 8.218 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 235000 | 9.1 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 212000 | 11.865 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 111000 | 13.788 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VN1113WBSD01 | SDG No.: | P4722 |
| Lab Sample ID: | VN1113WBSD01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP VOA |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VN084823.D | 1 | | 11/13/24 14:00 | VN111324 |

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

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

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

# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45

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

LAB FILE ID: RRF100 = VN084570.D RRF050 = VN084571.D RRF020 = VN084572.D
RRF010 = VN084573.D RRF005 = VN084574.D RRF001 = VN084575.D

| COMPOUND | RRF100 | RRF050 | RRF020 | RRF010 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.571 | 0.552 | 0.552 | 0.598 | 0.594 | 0.581 | 0.575 | 3.4 |
| Chloromethane | 0.658 | 0.672 | 0.725 | 0.871 | 0.995 | 1.789 | 0.952 | 45.2 |
| Vinyl Chloride | 0.613 | 0.605 | 0.623 | 0.636 | 0.651 | 0.581 | 0.618 | 4 |
| Bromomethane | 0.292 | 0.296 | 0.310 | 0.336 | 0.405 | | 0.328 | 14.2 |
| Chloroethane | 0.378 | 0.376 | 0.413 | 0.426 | 0.475 | 0.863 | 0.488 | 38.3 |
| Trichlorofluoromethane | 0.971 | 0.959 | 1.017 | 1.022 | 1.070 | 1.071 | 1.018 | 4.7 |
| 1,1,2-Trichlorotrifluoroethane | 0.566 | 0.557 | 0.571 | 0.585 | 0.588 | 0.586 | 0.575 | 2.2 |
| 1,1-Dichloroethene | 0.548 | 0.538 | 0.560 | 0.575 | 0.552 | 0.644 | 0.569 | 6.8 |
| Acetone | 0.209 | 0.204 | 0.213 | 0.223 | 0.241 | 0.338 | 0.238 | 21.3 |
| Carbon Disulfide | 1.604 | 1.603 | 1.700 | 1.714 | 1.784 | 2.117 | 1.753 | 10.9 |
| Methyl tert-butyl Ether | 1.773 | 1.758 | 1.802 | 1.779 | 1.786 | 1.572 | 1.745 | 4.9 |
| Methyl Acetate | 0.731 | 0.749 | 0.954 | 1.044 | 1.266 | 2.291 | 1.172 | 49.7 |
| Methylene Chloride | 0.604 | 0.602 | 0.633 | 0.658 | 0.714 | 0.600 | 0.635 | 7.1 |
| trans-1,2-Dichloroethene | 0.565 | 0.563 | 0.596 | 0.600 | 0.584 | 0.601 | 0.585 | 2.9 |
| 1,1-Dichloroethane | 1.067 | 1.066 | 1.114 | 1.127 | 1.203 | 1.033 | 1.102 | 5.5 |
| Cyclohexane | 0.956 | 0.938 | 0.956 | 1.043 | 1.093 | | 0.997 | 6.8 |
| 2-Butanone | 0.316 | 0.315 | 0.348 | 0.338 | 0.370 | 0.334 | 0.337 | 6.1 |
| Carbon Tetrachloride | 0.530 | 0.514 | 0.532 | 0.548 | 0.537 | 0.488 | 0.525 | 4 |
| cis-1,2-Dichloroethene | 0.675 | 0.662 | 0.697 | 0.685 | 0.705 | 0.673 | 0.683 | 2.4 |
| Bromochloromethane | 0.483 | 0.511 | 0.388 | 0.415 | 0.408 | 0.429 | 0.439 | 10.8 |
| Chloroform | 1.099 | 1.086 | 1.142 | 1.154 | 1.222 | 1.025 | 1.121 | 6 |
| 1,1,1-Trichloroethane | 1.000 | 0.991 | 1.046 | 1.073 | 1.032 | 0.980 | 1.021 | 3.5 |
| Methylcyclohexane | 0.546 | 0.509 | 0.495 | 0.487 | 0.458 | 0.371 | 0.478 | 12.5 |
| Benzene | 1.494 | 1.448 | 1.509 | 1.507 | 1.546 | 1.540 | 1.507 | 2.4 |
| 1,2-Dichloroethane | 0.488 | 0.494 | 0.493 | 0.492 | 0.503 | 0.459 | 0.488 | 3.1 |
| Trichloroethene | 0.339 | 0.335 | 0.345 | 0.338 | 0.341 | 0.387 | 0.348 | 5.7 |
| 1,2-Dichloropropane | 0.356 | 0.348 | 0.358 | 0.357 | 0.373 | 0.330 | 0.354 | 4 |
| Bromodichloromethane | 0.528 | 0.521 | 0.526 | 0.522 | 0.529 | 0.530 | 0.526 | 0.7 |
| 4-Methyl-2-Pentanone | 0.424 | 0.423 | 0.416 | 0.417 | 0.412 | 0.344 | 0.406 | 7.6 |
| Toluene | 0.923 | 0.899 | 0.919 | 0.902 | 0.891 | 0.757 | 0.882 | 7.1 |

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

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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45

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

LAB FILE ID: RRF100 = VN084570.D RRF050 = VN084571.D RRF020 = VN084572.D
RRF010 = VN084573.D RRF005 = VN084574.D RRF001 = VN084575.D

| COMPOUND | RRF100 | RRF050 | RRF020 | RRF010 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.552 | 0.543 | 0.538 | 0.532 | 0.547 | 0.555 | 0.544 | 1.6 |
| cis-1,3-Dichloropropene | 0.592 | 0.581 | 0.582 | 0.569 | 0.584 | 0.548 | 0.576 | 2.7 |
| 1,1,2-Trichloroethane | 0.336 | 0.329 | 0.334 | 0.342 | 0.342 | 0.309 | 0.332 | 3.7 |
| 2-Hexanone | 0.314 | 0.312 | 0.301 | 0.297 | 0.294 | 0.256 | 0.296 | 7.1 |
| Dibromochloromethane | 0.404 | 0.394 | 0.391 | 0.393 | 0.377 | 0.312 | 0.378 | 8.9 |
| 1,2-Dibromoethane | 0.340 | 0.333 | 0.341 | 0.335 | 0.355 | 0.336 | 0.340 | 2.4 |
| Tetrachloroethene | 0.326 | 0.313 | 0.333 | 0.347 | 0.351 | 0.325 | 0.333 | 4.3 |
| Chlorobenzene | 1.068 | 1.061 | 1.149 | 1.123 | 1.165 | 1.146 | 1.119 | 3.9 |
| Ethyl Benzene | 1.957 | 1.891 | 1.928 | 1.880 | 1.849 | 1.697 | 1.867 | 4.9 |
| m/p-Xylenes | 0.737 | 0.728 | 0.737 | 0.701 | 0.683 | 0.654 | 0.707 | 4.8 |
| o-Xylene | 0.703 | 0.690 | 0.701 | 0.679 | 0.645 | 0.550 | 0.661 | 8.9 |
| Styrene | 1.223 | 1.205 | 1.206 | 1.144 | 1.093 | 1.050 | 1.154 | 6.1 |
| Bromoform | 0.287 | 0.295 | 0.298 | 0.289 | 0.302 | 0.286 | 0.293 | 2.3 |
| Isopropylbenzene | 3.558 | 3.570 | 3.701 | 3.605 | 3.402 | 3.188 | 3.504 | 5.2 |
| 1,1,2,2-Tetrachloroethane | 1.052 | 1.073 | 1.163 | 1.190 | 1.317 | 1.222 | 1.170 | 8.4 |
| 1,3-Dichlorobenzene | 1.642 | 1.668 | 1.770 | 1.802 | 1.884 | 2.264 | 1.838 | 12.3 |
| 1,4-Dichlorobenzene | 1.646 | 1.674 | 1.782 | 1.867 | 1.879 | 2.773 | 1.937 | 21.7 |
| 1,2-Dichlorobenzene | 1.601 | 1.618 | 1.748 | 1.732 | 1.879 | 2.021 | 1.766 | 9.1 |
| 1,2-Dibromo-3-Chloropropane | 0.204 | 0.217 | 0.229 | 0.226 | 0.274 | 0.272 | 0.237 | 12.3 |
| 1,2,4-Trichlorobenzene | 0.852 | 0.865 | 0.895 | 0.881 | 0.956 | 1.353 | 0.967 | 19.9 |
| 1,2,3-Trichlorobenzene | 0.832 | 0.841 | 0.953 | 0.877 | 0.939 | 1.189 | 0.939 | 14.1 |
| 1,2-Dichloroethane-d4 | 0.689 | 0.721 | 0.708 | 0.722 | 0.771 | | 0.722 | 4.2 |
| Dibromofluoromethane | 0.334 | 0.344 | 0.326 | 0.336 | 0.353 | | 0.338 | 3.1 |
| Toluene-d8 | 1.267 | 1.303 | 1.216 | 1.231 | 1.217 | | 1.247 | 3 |
| 4-Bromofluorobenzene | 0.481 | 0.493 | 0.450 | 0.451 | 0.454 | | 0.466 | 4.3 |

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

Alliance TECHNICAL GROUP
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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_N Calibration Date/Time: 11/13/2024 09:52

Lab File ID: VN084815.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.575 | 0.546 | | -5.04 | 20 |
| Chloromethane | 0.952 | 0.608 | 0.1 | -36.13 | 20 |
| Vinyl Chloride | 0.618 | 0.665 | | 7.61 | 20 |
| Bromomethane | 0.328 | 0.336 | | 2.44 | 20 |
| Chloroethane | 0.488 | 0.417 | | -14.55 | 20 |
| Trichlorofluoromethane | 1.018 | 1.038 | | 1.97 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.575 | 0.578 | | 0.52 | 20 |
| 1,1-Dichloroethene | 0.569 | 0.539 | | -5.27 | 20 |
| Acetone | 0.238 | 0.205 | | -13.87 | 20 |
| Carbon Disulfide | 1.753 | 1.531 | | -12.66 | 20 |
| Methyl tert-butyl Ether | 1.745 | 1.800 | | 3.15 | 20 |
| Methyl Acetate | 1.172 | 0.631 | | -46.16 | 20 |
| Methylene Chloride | 0.635 | 0.600 | | -5.51 | 20 |
| trans-1,2-Dichloroethene | 0.585 | 0.566 | | -3.25 | 20 |
| 1,1-Dichloroethane | 1.102 | 1.068 | 0.1 | -3.09 | 20 |
| Cyclohexane | 0.997 | 0.913 | | -8.43 | 20 |
| 2-Butanone | 0.337 | 0.325 | | -3.56 | 20 |
| Carbon Tetrachloride | 0.525 | 0.567 | | 8 | 20 |
| cis-1,2-Dichloroethene | 0.683 | 0.673 | | -1.46 | 20 |
| Bromochloromethane | 0.439 | 0.474 | | 7.97 | 20 |
| Chloroform | 1.121 | 1.116 | | -0.45 | 20 |
| 1,1,1-Trichloroethane | 1.021 | 1.034 | | 1.27 | 20 |
| Methylcyclohexane | 0.478 | 0.545 | | 14.02 | 20 |
| Benzene | 1.507 | 1.535 | | 1.86 | 20 |
| 1,2-Dichloroethane | 0.488 | 0.515 | | 5.53 | 20 |
| Trichloroethene | 0.348 | 0.357 | | 2.59 | 20 |
| 1,2-Dichloropropane | 0.354 | 0.368 | | 3.95 | 20 |
| Bromodichloromethane | 0.526 | 0.545 | | 3.61 | 20 |
| 4-Methyl-2-Pentanone | 0.406 | 0.412 | | 1.48 | 20 |
| Toluene | 0.882 | 0.942 | | 6.8 | 20 |
| t-1,3-Dichloropropene | 0.544 | 0.546 | | 0.37 | 20 |
| cis-1,3-Dichloropropene | 0.576 | 0.603 | | 4.69 | 20 |
| 1,1,2-Trichloroethane | 0.332 | 0.345 | | 3.92 | 20 |
| 2-Hexanone | 0.296 | 0.312 | | 5.41 | 20 |
| Dibromochloromethane | 0.378 | 0.403 | | 6.61 | 20 |
| 1,2-Dibromoethane | 0.340 | 0.339 | | -0.29 | 20 |
| Tetrachloroethene | 0.333 | 0.370 | | 11.11 | 20 |
| Chlorobenzene | 1.119 | 1.142 | 0.3 | 2.06 | 20 |

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: MSVOA_N Calibration Date/Time: 11/13/2024 09:52

Lab File ID: VN084815.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.867 | 2.028 | | 8.62 | 20 |
| m/p-Xylenes | 0.707 | 0.777 | | 9.9 | 20 |
| o-Xylene | 0.661 | 0.751 | | 13.62 | 20 |
| Styrene | 1.154 | 1.259 | | 9.1 | 20 |
| Bromoform | 0.293 | 0.315 | 0.1 | 7.51 | 20 |
| Isopropylbenzene | 3.504 | 3.640 | | 3.88 | 20 |
| 1,1,2,2-Tetrachloroethane | 1.170 | 1.056 | 0.3 | -9.74 | 20 |
| 1,3-Dichlorobenzene | 1.838 | 1.698 | | -7.62 | 20 |
| 1,4-Dichlorobenzene | 1.937 | 1.702 | | -12.13 | 20 |
| 1,2-Dichlorobenzene | 1.766 | 1.640 | | -7.14 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.237 | 0.194 | | -18.14 | 20 |
| 1,2,4-Trichlorobenzene | 0.967 | 0.823 | | -14.89 | 20 |
| 1,2,3-Trichlorobenzene | 0.939 | 0.834 | | -11.18 | 20 |
| 1,2-Dichloroethane-d4 | 0.722 | 0.681 | | -5.68 | 20 |
| Dibromofluoromethane | 0.338 | 0.348 | | 2.96 | 20 |
| Toluene-d8 | 1.247 | 1.247 | | 0 | 20 |
| 4-Bromofluorobenzene | 0.466 | 0.482 | | 3.43 | 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:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/08/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-03DL** | **WC-1(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/07/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-08DL** | **WC-2(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/08/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-13DL** | **WC-3(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |

# SAMPLE DATA

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 93.8 Decanted: |
| Sample Wt/Vol: | 4.99 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 |
|---|---|---|---|
| FB031165.D | 50 | 11/08/24 11:15 | FB110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 985 | J | 412 | 2400 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 16.9 | | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 90.1 Decanted: |
| Sample Wt/Vol: | 5.08 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031151.D | 1 | 11/07/24 22:57 | FB110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 8.00 | U | 8.00 | 49.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 10.0 | | 50 - 150 | 50% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 86.6 Decanted: |
| Sample Wt/Vol: | 4.99 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 |
|---|---|---|---|
| FB031156.D | 50 | 11/08/24 1:10 | FB110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 447 | U | 447 | 2600 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 16.9 | | 50 - 150 | 84% | SPK: 20 |

Comments:

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

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

# QC SUMMARY

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## SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: Walsh Construction Company II, LLC

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

| EPA SAMPLE NO. | S1 AAA-TFT | S2 | S3 | S4 | TOT OUT |
|---|---|---|---|---|---|
| VBF1107S1 | 86 | | | | 0 |
| VBF1107S2 | 92 | | | | 0 |
| BSF1107S1 | 80 | | | | 0 |
| WC-2(0-6) | 50 | | | | 0 |
| WC-3(0-6) | 84 | | | | 0 |
| WC-3(0-6)MS | 69 | | | | 0 |
| WC-3(0-6)MSD | 89 | | | | 0 |
| WC-1(0-6) | 85 | | | | 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 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Walsh Construction Company II, LLC

**Lab Code:** CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722

**Client SampleID :** WC-3(0-6)MS **Datafile:** FB031157.D

| COMPOUND | SPIKE ADDED ug/kg | SAMPLE CONCENTRATION ug/kg | MS/MSD CONCENTRATION ug/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|---|
| GRO | 10331 | 0 | 9302 | 90% | | 50-150 |

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## SOIL GASOLINE RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Walsh Construction Company II, LLC

**Lab Code:** CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722

**Client SampleID :** WC-3(0-6)MSD **Datafile:** FB031158.D

| COMPOUND | SPIKE ADDED ug/kg | SAMPLE CONCENTRATION ug/kg | MS/MSD CONCENTRATION ug/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|---|
| GRO | 10229 | 0 | 10011 | 98% | | 50-150 |

**MS/MSD % Recovery RPD :** 8.4

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

**Lab Name:** Chemtech **Client:** Walsh Construction Company II, LLC

**Lab Code:** CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722

**Matrix Spike - EPA Sample No :** BSF1107S1 **Datafile:** FB031130.D

| COMPOUND | SPIKE ADDED ug/kg | CONCENTRATION ug/kg | LCS/LCSD CONCENTRATION ug/kg | % REC | QC LIMITS |
|---|---|---|---|---|---|
| GRO | 180 | 0 | 169 | 94 | 50-150 |

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# METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF1107S1

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: FB031128.D Lab Sample ID: VBF1107S1

Date Analyzed: 11/07/24 Time Analyzed: 10:54

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

Instrument ID: FB

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| BSF1107S1 | BSF1107S1 | FB031130.D | 11/07/24 |
| WC-2(0-6) | P4722-08 | FB031151.D | 11/07/24 |

COMMENTS:

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# METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF1107S2

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: FB031129.D Lab Sample ID: VBF1107S2

Date Analyzed: 11/07/24 Time Analyzed: 11:21

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

Instrument ID: FB

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| WC-3(0-6) | P4722-13 | FB031156.D | 11/08/24 |
| WC-3(0-6)MS | P4722-13MS | FB031157.D | 11/08/24 |
| WC-3(0-6)MSD | P4722-13MSD | FB031158.D | 11/08/24 |
| WC-1(0-6) | P4722-03 | FB031165.D | 11/08/24 |

COMMENTS:

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VBF1107S1 | SDG No.: | P4722 |
| Lab Sample ID: | VBF1107S1 | 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 |
|---|---|---|---|
| FB031128.D | 1 | 11/07/24 10:54 | FB110724 |

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

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | VBF1107S2 | SDG No.: | P4722 |
| Lab Sample ID: | VBF1107S2 | 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 |
|---|---|---|---|
| FB031129.D | 50 | 11/07/24 11:21 | FB110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 386 | U | 386 | 2250 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 18.3 | | 50 - 150 | 92% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | BSF1107S1 | SDG No.: | P4722 |
| Lab Sample ID: | BSF1107S1 | 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 |
|---|---|---|---|
| FB031130.D | 1 | 11/07/24 11:48 | FB110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 169 | | 8.00 | 45.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 16.1 | | 50 - 150 | 80% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)MS | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13MS | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 86.6 Decanted: |
| Sample Wt/Vol: | 5.03 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031157.D | 50 | 11/08/24 1:36 | FB110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 9300 | | 443 | 2580 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 13.9 | | 50 - 150 | 69% | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13MSD | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 86.6 Decanted: |
| Sample Wt/Vol: | 5.08 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031158.D | 50 | 11/08/24 2:03 | FB110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 10000 | | 439 | 2560 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 17.8 | | 50 - 150 | 89% | SPK: 20 |

Comments:

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

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

# CALIBRATION SUMMARY

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## GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: WALS01

ProjectID: NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

| Calibration Sequence : FB102824 | | Test : Gasoline Range Organics | |
|---|---|---|---|
| **Concentration (PPB)** | **Area Count** | **Reference Factor** | **File ID** |
| 90 | 3845926 | 42733 | FB031048.D |
| 180 | 8340483 | 46336 | FB031049.D |
| 450 | 20571050 | 45713 | FB031050.D |
| 900 | 41150366 | 45723 | FB031051.D |
| 45 | 2059049 | 45757 | FB031052.D |

**AVG RF :** 45252 **% RSD : 3.166** **AVG RT : 8.7908**

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## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Chemtech Contract: WALS01

ProjectID: NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

DataFile: FB031127.D Analyst Name: YP/AJ Analyst Date: 11-07-2024

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 8634747 | 47971 | 45252 | 6.009 |

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## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Chemtech Contract: WALS01

ProjectID: NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

DataFile: FB031137.D Analyst Name: YP/AJ Analyst Date: 11-07-2024

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 8526733 | 47371 | 45252 | 4.683 |

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## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Chemtech Contract: WALS01

ProjectID: NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

DataFile: FB031149.D Analyst Name: YP/AJ Analyst Date: 11-07-2024

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 8260502 | 45892 | 45252 | 1.414 |

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## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Chemtech Contract: WALS01

ProjectID: NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

DataFile: FB031160.D Analyst Name: YP/AJ Analyst Date: 11-08-2024

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 7524695 | 41804 | 45252 | 7.62 |

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## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Chemtech Contract: WALS01

ProjectID: NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

DataFile: FB031164.D Analyst Name: YP/AJ Analyst Date: 11-08-2024

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 7989462 | 44386 | 45252 | 1.914 |

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## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Chemtech Contract: WALS01

ProjectID: NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

DataFile: FB031168.D Analyst Name: YP/AJ Analyst Date: 11-08-2024

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 8162497 | 45347 | 45252 | 0.21 |

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# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 **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** **8.7908**

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE AND TIME ANALYZED | DATAFILE | RT | # |
|---|---|---|---|---|---|
| 20 PPB GRO STD | 20 PPB GRO STD | 7 Nov 2024 10:14 | FB031127.D | 8.789 | |
| VBF1107S1 | VBF1107S1 | 7 Nov 2024 10:54 | FB031128.D | 8.792 | |
| VBF1107S2 | VBF1107S2 | 7 Nov 2024 11:21 | FB031129.D | 8.793 | |
| BSF1107S1 | BSF1107S1 | 7 Nov 2024 11:48 | FB031130.D | 8.794 | |
| 20 PPB GRO STD | 20 PPB GRO STD | 7 Nov 2024 14:56 | FB031137.D | 8.796 | |
| 20 PPB GRO STD | 20 PPB GRO STD | 7 Nov 2024 21:11 | FB031149.D | 8.793 | |
| WC-2(0-6) | P4722-08 | 7 Nov 2024 22:57 | FB031151.D | 8.791 | |
| WC-3(0-6) | P4722-13 | 8 Nov 2024 1:10 | FB031156.D | 8.790 | |
| WC-3(0-6)MS | P4722-13MS | 8 Nov 2024 1:36 | FB031157.D | 8.790 | |
| WC-3(0-6)MSD | P4722-13MSD | 8 Nov 2024 2:03 | FB031158.D | 8.790 | |
| 20 PPB GRO STD | 20 PPB GRO STD | 8 Nov 2024 2:56 | FB031160.D | 8.793 | |
| 20 PPB GRO STD | 20 PPB GRO STD | 8 Nov 2024 10:36 | FB031164.D | 8.793 | |
| WC-1(0-6) | P4722-03 | 8 Nov 2024 11:15 | FB031165.D | 8.792 | |
| 20 PPB GRO STD | 20 PPB GRO STD | 8 Nov 2024 12:46 | FB031168.D | 8.795 | |

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

| QC Limits | Lower Limit | Upper Limits |
|---|---|---|
| (± 0.10 minutes) | 8.6908 | 8.8908 |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/07/24 | 11/08/24 | |
| **P4722-04** | **WC-1(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP BNA | 8270E | | 11/07/24 | 11/08/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/07/24 | 11/08/24 | |
| **P4722-08DL** | **WC-2(0-6)DL** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/07/24 | 11/14/24 | |
| **P4722-09** | **WC-2(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP BNA | 8270E | | 11/07/24 | 11/08/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/07/24 | 11/07/24 | |
| **P4722-14** | **WC-3(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP BNA | 8270E | | 11/07/24 | 11/08/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID :** | **WC-1(0-6)** | | | | | | | |
| P4722-03 | WC-1(0-6) | SOIL | Phenanthrene | 910.000 | | 180 | 360 | ug/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Anthracene | 230.000 | J | 180 | 360 | ug/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Fluoranthene | 1,600.000 | | 170 | 360 | ug/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Pyrene | 1,400.000 | | 180 | 360 | ug/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Benzo(a)anthracene | 890.000 | | 170 | 360 | ug/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Chrysene | 680.000 | | 170 | 360 | ug/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Benzo(b)fluoranthene | 850.000 | | 170 | 360 | ug/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Benzo(k)fluoranthene | 430.000 | | 180 | 360 | ug/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Benzo(a)pyrene | 830.000 | | 200 | 360 | ug/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Indeno(1,2,3-cd)pyrene | 380.000 | | 170 | 360 | ug/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Benzo(g,h,i)perylene | 450.000 | | 170 | 360 | ug/Kg |
| | | | **Total Svoc :** | **8,650.00** | | | | |
| P4722-03 | WC-1(0-6) | SOIL | 1H-Cyclopropa[l]phenanthrene,1a * | 490.000 | J | 0 | 0 | ug/Kg |
| P4722-03 | WC-1(0-6) | SOIL | 4H-Cyclopenta[def]phenanthrene * | 310.000 | J | 0 | 0 | ug/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Benzophenone * | 150.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | **950.00** | | | | |
| | | | **Total Concentration:** | **9,600.00** | | | | |
| **Client ID :** | **WC-2(0-6)** | | | | | | | |
| P4722-08 | WC-2(0-6) | SOIL | Naphthalene | 160.000 | J | 91.5 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Acenaphthylene | 140.000 | J | 95.8 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Acenaphthene | 250.000 | | 89.8 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Dibenzofuran | 150.000 | J | 93.5 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Fluorene | 210.000 | | 94.7 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Phenanthrene | 2,200.000 | | 93 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Anthracene | 600.000 | | 93.5 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Carbazole | 220.000 | | 88.9 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Fluoranthene | 3,000.000 | E | 90.5 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Pyrene | 2,300.000 | | 91.9 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Benzo(a)anthracene | 1,600.000 | | 89.4 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Chrysene | 1,400.000 | | 88 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Benzo(b)fluoranthene | 2,000.000 | | 89.8 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Benzo(k)fluoranthene | 620.000 | | 91.5 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Benzo(a)pyrene | 1,600.000 | | 100 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Indeno(1,2,3-cd)pyrene | 770.000 | | 86.5 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Dibenzo(a,h)anthracene | 260.000 | | 89.9 | 190 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Benzo(g,h,i)perylene | 930.000 | | 88.7 | 190 | ug/Kg |
| | | | **Total Svoc :** | **18,410.00** | | | | |

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

# Hit Summary Sheet
## SW-846

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| P4722-08 | WC-2(0-6) | SOIL | Cyclopenta(def)phenanthrenone | * | 180.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Dibenzothiophene | * | 130.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Fluoranthene, 2-methyl- | * | 140.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Naphthalene, 2-phenyl- | * | 180.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Perylene | * | 1,000.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Phenanthrene, 2,3-dimethyl- | * | 200.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Phenanthrene, 2-methyl- | * | 220.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Pyrene, 1-methyl- | * | 100.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | unknown12.498 | * | 160.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | 11H-Benzo[a]fluoren-11-one | * | 160.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | 1H-Cyclopropa[l]phenanthrene,1a | * | 640.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | 1H-Indene, 2-phenyl- | * | 150.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | 2-Pentanone, 4-hydroxy-4-methyl | * | 110.000 | AB | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | 4H-Cyclopenta[def]phenanthrene | * | 590.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | 4-Methylcarbazole | * | 98.900 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | 9H-Fluoren-9-one | * | 97.800 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | 9H-Fluorene, 1-methyl- | * | 99.300 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Benzo[e]pyrene | * | 260.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Benzophenone | * | 230.000 | J | 0 | 0 | ug/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Butane, 2-methoxy-2-methyl- | * | 2,700.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **7,446.00** | | | | |
| | | | **Total Concentration:** | | **25,856.00** | | | | |

**Client ID : WC-2(0-6)DL**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| P4722-08DL | WC-2(0-6)DL | SOIL | Acenaphthene | | 250.000 | JD | 180 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Fluorene | | 200.000 | JD | 190 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Phenanthrene | | 2,300.000 | D | 190 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Anthracene | | 590.000 | D | 190 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Carbazole | | 210.000 | JD | 180 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Fluoranthene | | 3,000.000 | D | 180 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Pyrene | | 2,400.000 | D | 180 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Benzo(a)anthracene | | 1,600.000 | D | 180 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Chrysene | | 1,500.000 | D | 180 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Benzo(b)fluoranthene | | 2,000.000 | D | 180 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Benzo(k)fluoranthene | | 620.000 | D | 180 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Benzo(a)pyrene | | 1,600.000 | D | 210 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Indeno(1,2,3-cd)pyrene | | 800.000 | D | 170 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Dibenzo(a,h)anthracene | | 230.000 | JD | 180 | 380 | ug/Kg |
| P4722-08DL | WC-2(0-6)DL | SOIL | Benzo(g,h,i)perylene | | 950.000 | D | 180 | 380 | ug/Kg |
| | | | **Total Svoc :** | | **18,250.00** | | | | |

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Fax : 908 789 8922

# Hit Summary Sheet
## SW-846

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| | | | **Total Concentration:** | | **18,250.00** | | | | |
| **Client ID :** | **WC-3(0-6)** | | | | | | | | |
| P4722-13 | WC-3(0-6) | SOIL | Phenanthrene | | 2,700.000 | | 480 | 980 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Anthracene | | 610.000 | J | 490 | 980 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Fluoranthene | | 4,600.000 | | 470 | 980 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Pyrene | | 2,900.000 | | 480 | 980 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Benzo(a)anthracene | | 2,700.000 | | 470 | 980 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Chrysene | | 2,200.000 | | 460 | 980 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Benzo(b)fluoranthene | | 3,200.000 | | 470 | 980 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Benzo(k)fluoranthene | | 1,100.000 | | 480 | 980 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Benzo(a)pyrene | | 2,400.000 | | 540 | 980 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Indeno(1,2,3-cd)pyrene | | 990.000 | | 450 | 980 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Benzo(g,h,i)perylene | | 1,000.000 | | 460 | 980 | ug/Kg |
| | | | **Total Svoc :** | | **24,400.00** | | | | |
| P4722-13 | WC-3(0-6) | SOIL | 11H-Benzo[a]fluorene | * | 540.000 | J | 0 | 0 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | 1H-Cyclopropa[l]phenanthrene,1a | * | 680.000 | J | 0 | 0 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | 4H-Cyclopenta[def]phenanthrene | * | 970.000 | J | 0 | 0 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Anthracene, 2-methyl- | * | 440.000 | J | 0 | 0 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Phenanthrene, 2,5-dimethyl- | * | 390.000 | J | 0 | 0 | ug/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Pyrene, 1-methyl- | * | 430.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **3,450.00** | | | | |
| | | | **Total Concentration:** | | **27,850.00** | | | | |

# SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 93.8 |
| 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 |
|---|---|---|---|---|
| BF140305.D | 2 | 11/07/24 09:20 | 11/08/24 18:03 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 390 | U | 390 | 700 | ug/Kg |
| 108-95-2 | Phenol | 180 | U | 180 | 360 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 180 | U | 180 | 360 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 180 | U | 180 | 360 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 170 | U | 170 | 360 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 190 | U | 190 | 360 | ug/Kg |
| 98-86-2 | Acetophenone | 190 | U | 190 | 360 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 170 | U | 170 | 700 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 85.9 | U | 85.9 | 170 | ug/Kg |
| 67-72-1 | Hexachloroethane | 180 | U | 180 | 360 | ug/Kg |
| 98-95-3 | Nitrobenzene | 190 | U | 190 | 360 | ug/Kg |
| 78-59-1 | Isophorone | 180 | U | 180 | 360 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 200 | U | 200 | 360 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 200 | U | 200 | 360 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 180 | U | 180 | 360 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 160 | U | 160 | 360 | ug/Kg |
| 91-20-3 | Naphthalene | 180 | U | 180 | 360 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 180 | U | 180 | 360 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 180 | U | 180 | 360 | ug/Kg |
| 105-60-2 | Caprolactam | 180 | U | 180 | 700 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 170 | U | 170 | 360 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 180 | U | 180 | 360 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | UQ | 330 | 700 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 150 | U | 150 | 360 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 160 | U | 160 | 360 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 190 | U | 190 | 360 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 180 | U | 180 | 360 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 200 | U | 200 | 360 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 170 | U | 170 | 360 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 93.8 |
| 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 |
|---|---|---|---|---|
| BF140305.D | 2 | 11/07/24 09:20 | 11/08/24 18:03 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 180 | U | 180 | 360 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 180 | U | 180 | 360 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 190 | U | 190 | 360 | ug/Kg |
| 83-32-9 | Acenaphthene | 170 | U | 170 | 360 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 520 | U | 520 | 700 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 250 | U | 250 | 700 | ug/Kg |
| 132-64-9 | Dibenzofuran | 180 | U | 180 | 360 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 180 | U | 180 | 360 | ug/Kg |
| 84-66-2 | Diethylphthalate | 170 | U | 170 | 360 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 180 | U | 180 | 360 | ug/Kg |
| 86-73-7 | Fluorene | 180 | U | 180 | 360 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 230 | U | 230 | 360 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 250 | U | 250 | 700 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 170 | U | 170 | 360 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 170 | U | 170 | 360 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 180 | U | 180 | 360 | ug/Kg |
| 1912-24-9 | Atrazine | 190 | U | 190 | 360 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 160 | U | 160 | 700 | ug/Kg |
| 85-01-8 | Phenanthrene | 910 | | 180 | 360 | ug/Kg |
| 120-12-7 | Anthracene | 230 | J | 180 | 360 | ug/Kg |
| 86-74-8 | Carbazole | 170 | U | 170 | 360 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 180 | U | 180 | 360 | ug/Kg |
| 206-44-0 | Fluoranthene | 1600 | | 170 | 360 | ug/Kg |
| 129-00-0 | Pyrene | 1400 | | 180 | 360 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 210 | U | 210 | 360 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 210 | U | 210 | 700 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 890 | | 170 | 360 | ug/Kg |
| 218-01-9 | Chrysene | 680 | | 170 | 360 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 190 | U | 190 | 360 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 230 | U | 230 | 700 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 850 | | 170 | 360 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 93.8 |
| 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 |
|---|---|---|---|---|
| BF140305.D | 2 | 11/07/24 09:20 | 11/08/24 18:03 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 430 | | 180 | 360 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 830 | | 200 | 360 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 380 | | 170 | 360 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 170 | U | 170 | 360 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 450 | | 170 | 360 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 180 | U | 180 | 360 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 230 | U | 230 | 360 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 160 | U | 160 | 360 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 82.4 | | 18 - 112 | 55% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 80.3 | | 15 - 107 | 54% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 55.9 | | 18 - 107 | 56% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 62.5 | | 20 - 109 | 62% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 78.3 | | 10 - 116 | 52% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 60.2 | | 10 - 105 | 60% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 116000 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 403000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 201000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 343000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 224000 | 14.057 | | | |
| 1520-96-3 | Perylene-d12 | 184000 | 15.563 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000119-61-9 | Benzophenone | 150 | J | | 10.6 | ug/Kg |
| 000949-41-7 | 1H-Cyclopropa[l]phenanthrene,1a,9b | 490 | J | | 11.9 | ug/Kg |
| 000203-64-5 | 4H-Cyclopenta[def]phenanthrene | 310 | J | | 12.0 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 93.8 |
| 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 |
|---|---|---|---|---|
| BF140305.D | 2 | 11/07/24 09:20 | 11/08/24 18:03 | PB164750 |

| 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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.1 |
| 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 |
|---|---|---|---|---|
| BF140303.D | 1 | 11/07/24 09:20 | 11/08/24 17:10 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 200 | U | 200 | 370 | ug/Kg |
| 108-95-2 | Phenol | 91.8 | U | 91.8 | 190 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 92.7 | U | 92.7 | 190 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 92.5 | U | 92.5 | 190 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 89.2 | U | 89.2 | 190 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 100 | U | 100 | 190 | ug/Kg |
| 98-86-2 | Acetophenone | 96.2 | U | 96.2 | 190 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 88.4 | U | 88.4 | 370 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 44.6 | U | 44.6 | 88.6 | ug/Kg |
| 67-72-1 | Hexachloroethane | 91.9 | U | 91.9 | 190 | ug/Kg |
| 98-95-3 | Nitrobenzene | 100 | U | 100 | 190 | ug/Kg |
| 78-59-1 | Isophorone | 93.7 | U | 93.7 | 190 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 100 | U | 100 | 190 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 100 | U | 100 | 190 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 95.0 | U | 95.0 | 190 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 83.6 | U | 83.6 | 190 | ug/Kg |
| 91-20-3 | Naphthalene | 160 | J | 91.5 | 190 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 91.5 | U | 91.5 | 190 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 92.2 | U | 92.2 | 190 | ug/Kg |
| 105-60-2 | Caprolactam | 96.1 | U | 96.1 | 370 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 85.8 | U | 85.8 | 190 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 91.4 | U | 91.4 | 190 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 170 | UQ | 170 | 370 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 79.1 | U | 79.1 | 190 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 81.9 | U | 81.9 | 190 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 96.8 | U | 96.8 | 190 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 92.2 | U | 92.2 | 190 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 110 | U | 110 | 190 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 90.5 | U | 90.5 | 190 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.1 |
| 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 |
|---|---|---|---|---|
| BF140303.D | 1 | 11/07/24 09:20 | 11/08/24 17:10 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 140 | J | 95.8 | 190 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 92.1 | U | 92.1 | 190 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 98.8 | U | 98.8 | 190 | ug/Kg |
| 83-32-9 | Acenaphthene | 250 | | 89.8 | 190 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 270 | U | 270 | 370 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 130 | U | 130 | 370 | ug/Kg |
| 132-64-9 | Dibenzofuran | 150 | J | 93.5 | 190 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 95.4 | U | 95.4 | 190 | ug/Kg |
| 84-66-2 | Diethylphthalate | 88.7 | U | 88.7 | 190 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 94.8 | U | 94.8 | 190 | ug/Kg |
| 86-73-7 | Fluorene | 210 | | 94.7 | 190 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 120 | U | 120 | 190 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 130 | U | 130 | 370 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 90.4 | U | 90.4 | 190 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 87.4 | U | 87.4 | 190 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 94.1 | U | 94.1 | 190 | ug/Kg |
| 1912-24-9 | Atrazine | 100 | U | 100 | 190 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 85.6 | U | 85.6 | 370 | ug/Kg |
| 85-01-8 | Phenanthrene | 2200 | | 93.0 | 190 | ug/Kg |
| 120-12-7 | Anthracene | 600 | | 93.5 | 190 | ug/Kg |
| 86-74-8 | Carbazole | 220 | | 88.9 | 190 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 93.3 | U | 93.3 | 190 | ug/Kg |
| 206-44-0 | Fluoranthene | 3000 | E | 90.5 | 190 | ug/Kg |
| 129-00-0 | Pyrene | 2300 | | 91.9 | 190 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 110 | U | 110 | 190 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 110 | U | 110 | 370 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1600 | | 89.4 | 190 | ug/Kg |
| 218-01-9 | Chrysene | 1400 | | 88.0 | 190 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 100 | U | 100 | 190 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 120 | U | 120 | 370 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 2000 | | 89.8 | 190 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.1 |
| 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 |
|---|---|---|---|---|
| BF140303.D | 1 | 11/07/24 09:20 | 11/08/24 17:10 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 620 | | 91.5 | 190 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1600 | | 100 | 190 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 770 | | 86.5 | 190 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 260 | | 89.9 | 190 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 930 | | 88.7 | 190 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 96.1 | U | 96.1 | 190 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 120 | U | 120 | 190 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 82.7 | U | 82.7 | 190 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 99.8 | | 18 - 112 | 67% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 97.7 | | 15 - 107 | 65% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 66.5 | | 18 - 107 | 66% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 71.3 | | 20 - 109 | 71% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 91.7 | | 10 - 116 | 61% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 58.3 | | 10 - 105 | 58% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 116000 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 426000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 223000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 344000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 256000 | 14.068 | | | |
| 1520-96-3 | Perylene-d12 | 207000 | 15.58 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 2700 | J | | 2.15 | ug/Kg |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 110 | AB | | 5.10 | ug/Kg |
| 000119-61-9 | Benzophenone | 230 | J | | 10.6 | ug/Kg |
| 001730-37-6 | 9H-Fluorene, 1-methyl- | 99.3 | J | | 11.0 | ug/Kg |
| 000486-25-9 | 9H-Fluoren-9-one | 97.8 | J | | 11.2 | ug/Kg |
| 000132-65-0 | Dibenzothiophene | 130 | J | | 11.3 | ug/Kg |
| 002531-84-2 | Phenanthrene, 2-methyl- | 220 | J | | 11.9 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.1 |
| 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 |
|---|---|---|---|---|
| BF140303.D | 1 | 11/07/24 09:20 | 11/08/24 17:10 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 000949-41-7 | 1H-Cyclopropa[l]phenanthrene,1a,9b | 640 | J | | 11.9 | ug/Kg |
| 004505-48-0 | 1H-Indene, 2-phenyl- | 150 | J | | 12.0 | ug/Kg |
| 000203-64-5 | 4H-Cyclopenta[def]phenanthrene | 590 | J | | 12.0 | ug/Kg |
| 003770-48-7 | 4-Methylcarbazole | 98.9 | J | | 12.1 | ug/Kg |
| 000612-94-2 | Naphthalene, 2-phenyl- | 180 | J | | 12.2 | ug/Kg |
| 003674-65-5 | Phenanthrene, 2,3-dimethyl- | 200 | J | | 12.5 | ug/Kg |
| | unknown12.498 | 160 | J | | 12.5 | ug/Kg |
| 005737-13-3 | Cyclopenta(def)phenanthrenone | 180 | J | | 12.5 | ug/Kg |
| 002381-21-7 | Pyrene, 1-methyl- | 100 | J | | 13.1 | ug/Kg |
| 033543-31-6 | Fluoranthene, 2-methyl- | 140 | J | | 13.2 | ug/Kg |
| 000479-79-8 | 11H-Benzo[a]fluoren-11-one | 160 | J | | 13.9 | ug/Kg |
| 000192-97-2 | Benzo[e]pyrene | 260 | J | | 15.3 | ug/Kg |
| 000198-55-0 | Perylene | 1000 | J | | 15.5 | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6)DL | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08DL | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.1 |
| 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 |
|---|---|---|---|---|
| BF140377.D | 2 | 11/07/24 09:20 | 11/14/24 21:54 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 400 | UD | 400 | 730 | ug/Kg |
| 108-95-2 | Phenol | 180 | UD | 180 | 380 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 190 | UD | 190 | 380 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 180 | UD | 180 | 380 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 180 | UD | 180 | 380 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 200 | UD | 200 | 380 | ug/Kg |
| 98-86-2 | Acetophenone | 190 | UD | 190 | 380 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 180 | UD | 180 | 730 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 89.2 | UD | 89.2 | 180 | ug/Kg |
| 67-72-1 | Hexachloroethane | 180 | UD | 180 | 380 | ug/Kg |
| 98-95-3 | Nitrobenzene | 200 | UD | 200 | 380 | ug/Kg |
| 78-59-1 | Isophorone | 190 | UD | 190 | 380 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 210 | UD | 210 | 380 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 210 | UD | 210 | 380 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 190 | UD | 190 | 380 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 170 | UD | 170 | 380 | ug/Kg |
| 91-20-3 | Naphthalene | 180 | UD | 180 | 380 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 180 | UD | 180 | 380 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 180 | UD | 180 | 380 | ug/Kg |
| 105-60-2 | Caprolactam | 190 | UD | 190 | 730 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 170 | UD | 170 | 380 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 180 | UD | 180 | 380 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | UDQ | 350 | 730 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 160 | UD | 160 | 380 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 160 | UD | 160 | 380 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 190 | UD | 190 | 380 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 180 | UD | 180 | 380 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 210 | UD | 210 | 380 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 180 | UD | 180 | 380 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6)DL | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08DL | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.1 |
| 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 |
|---|---|---|---|---|
| BF140377.D | 2 | 11/07/24 09:20 | 11/14/24 21:54 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 190 | UD | 190 | 380 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 180 | UD | 180 | 380 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 200 | UD | 200 | 380 | ug/Kg |
| 83-32-9 | Acenaphthene | 250 | JD | 180 | 380 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 540 | UD | 540 | 730 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 260 | UD | 260 | 730 | ug/Kg |
| 132-64-9 | Dibenzofuran | 190 | UD | 190 | 380 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 190 | UD | 190 | 380 | ug/Kg |
| 84-66-2 | Diethylphthalate | 180 | UD | 180 | 380 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 190 | UD | 190 | 380 | ug/Kg |
| 86-73-7 | Fluorene | 200 | JD | 190 | 380 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 240 | UD | 240 | 380 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 260 | UD | 260 | 730 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 180 | UD | 180 | 380 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 170 | UD | 170 | 380 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 190 | UD | 190 | 380 | ug/Kg |
| 1912-24-9 | Atrazine | 200 | UD | 200 | 380 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 170 | UD | 170 | 730 | ug/Kg |
| 85-01-8 | Phenanthrene | 2300 | D | 190 | 380 | ug/Kg |
| 120-12-7 | Anthracene | 590 | D | 190 | 380 | ug/Kg |
| 86-74-8 | Carbazole | 210 | JD | 180 | 380 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 190 | UD | 190 | 380 | ug/Kg |
| 206-44-0 | Fluoranthene | 3000 | D | 180 | 380 | ug/Kg |
| 129-00-0 | Pyrene | 2400 | D | 180 | 380 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 210 | UD | 210 | 380 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 220 | UD | 220 | 730 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1600 | D | 180 | 380 | ug/Kg |
| 218-01-9 | Chrysene | 1500 | D | 180 | 380 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 200 | UD | 200 | 380 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 240 | UD | 240 | 730 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 2000 | D | 180 | 380 | ug/Kg |

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6)DL | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08DL | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 90.1 |
| 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 |
|---|---|---|---|---|
| BF140377.D | 2 | 11/07/24 09:20 | 11/14/24 21:54 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 620 | D | 180 | 380 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1600 | D | 210 | 380 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 800 | D | 170 | 380 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 230 | JD | 180 | 380 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 950 | D | 180 | 380 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 190 | UD | 190 | 380 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 240 | UD | 240 | 380 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 170 | UD | 170 | 380 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 102 | | 18 - 112 | 68% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 97.6 | | 15 - 107 | 65% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 71.4 | | 18 - 107 | 71% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 81.2 | | 20 - 109 | 81% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 77.8 | | 10 - 116 | 52% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 62.7 | | 10 - 105 | 63% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 137000 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 500000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 232000 | 9.91 | | | |
| 1517-22-2 | Phenanthrene-d10 | 344000 | 11.398 | | | |
| 1719-03-5 | Chrysene-d12 | 250000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 179000 | 15.539 | | | |

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 86.6 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140280.D | 5 | 11/07/24 09:20 | 11/07/24 17:32 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 1000 | U | 1000 | 1900 | ug/Kg |
| 108-95-2 | Phenol | 480 | U | 480 | 980 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 480 | U | 480 | 980 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 480 | U | 480 | 980 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 460 | U | 460 | 980 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 520 | U | 520 | 980 | ug/Kg |
| 98-86-2 | Acetophenone | 500 | U | 500 | 980 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 460 | U | 460 | 1900 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 230 | U | 230 | 460 | ug/Kg |
| 67-72-1 | Hexachloroethane | 480 | U | 480 | 980 | ug/Kg |
| 98-95-3 | Nitrobenzene | 520 | U | 520 | 980 | ug/Kg |
| 78-59-1 | Isophorone | 490 | U | 490 | 980 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 540 | U | 540 | 980 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 540 | U | 540 | 980 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 490 | U | 490 | 980 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 440 | U | 440 | 980 | ug/Kg |
| 91-20-3 | Naphthalene | 480 | U | 480 | 980 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 480 | U | 480 | 980 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 480 | U | 480 | 980 | ug/Kg |
| 105-60-2 | Caprolactam | 500 | U | 500 | 1900 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 450 | U | 450 | 980 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 480 | U | 480 | 980 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 900 | UQ | 900 | 1900 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 410 | U | 410 | 980 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 430 | U | 430 | 980 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 500 | U | 500 | 980 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 480 | U | 480 | 980 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 550 | U | 550 | 980 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 470 | U | 470 | 980 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 86.6 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140280.D | 5 | 11/07/24 09:20 | 11/07/24 17:32 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 500 | U | 500 | 980 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 480 | U | 480 | 980 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 510 | U | 510 | 980 | ug/Kg |
| 83-32-9 | Acenaphthene | 470 | U | 470 | 980 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 1400 | U | 1400 | 1900 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 670 | U | 670 | 1900 | ug/Kg |
| 132-64-9 | Dibenzofuran | 490 | U | 490 | 980 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 500 | U | 500 | 980 | ug/Kg |
| 84-66-2 | Diethylphthalate | 460 | U | 460 | 980 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 490 | U | 490 | 980 | ug/Kg |
| 86-73-7 | Fluorene | 490 | U | 490 | 980 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 620 | U | 620 | 980 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 670 | U | 670 | 1900 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 470 | U | 470 | 980 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 450 | U | 450 | 980 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 490 | U | 490 | 980 | ug/Kg |
| 1912-24-9 | Atrazine | 530 | U | 530 | 980 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 450 | U | 450 | 1900 | ug/Kg |
| 85-01-8 | Phenanthrene | 2700 | | 480 | 980 | ug/Kg |
| 120-12-7 | Anthracene | 610 | J | 490 | 980 | ug/Kg |
| 86-74-8 | Carbazole | 460 | U | 460 | 980 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 490 | U | 490 | 980 | ug/Kg |
| 206-44-0 | Fluoranthene | 4600 | | 470 | 980 | ug/Kg |
| 129-00-0 | Pyrene | 2900 | | 480 | 980 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 560 | U | 560 | 980 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 570 | U | 570 | 1900 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 2700 | | 470 | 980 | ug/Kg |
| 218-01-9 | Chrysene | 2200 | | 460 | 980 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 520 | U | 520 | 980 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 630 | U | 630 | 1900 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 3200 | | 470 | 980 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 86.6 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140280.D | 5 | 11/07/24 09:20 | 11/07/24 17:32 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1100 | | 480 | 980 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 2400 | | 540 | 980 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 990 | | 450 | 980 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 470 | U | 470 | 980 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1000 | | 460 | 980 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 500 | U | 500 | 980 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 630 | U | 630 | 980 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 430 | U | 430 | 980 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 86.4 | | 18 - 112 | 58% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 87.1 | | 15 - 107 | 58% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 55.5 | | 18 - 107 | 56% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 65.8 | | 20 - 109 | 66% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 68.8 | | 10 - 116 | 46% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 46.1 | | 10 - 105 | 46% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 116000 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 438000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 226000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 319000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 257000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 207000 | 15.539 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000613-12-7 | Anthracene, 2-methyl- | 440 | J | | 11.9 | ug/Kg |
| 000949-41-7 | 1H-Cyclopropa[l]phenanthrene,1a,9b | 680 | J | | 11.9 | ug/Kg |
| 000203-64-5 | 4H-Cyclopenta[def]phenanthrene | 970 | J | | 12.0 | ug/Kg |
| 003674-66-6 | Phenanthrene, 2,5-dimethyl- | 390 | J | | 12.5 | ug/Kg |
| 002381-21-7 | Pyrene, 1-methyl- | 430 | J | | 13.1 | ug/Kg |
| 000238-84-6 | 11H-Benzo[a]fluorene | 540 | J | | 13.2 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 86.6 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140280.D | 5 | 11/07/24 09:20 | 11/07/24 17:32 | PB164750 |

| 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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Fax : 908 789 8922

# Surrogate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P4722-03 | WC-1(0-6) | 2-Fluorophenol | 150 | 82.4 | 55 | | 18 | 112 |
| | | Phenol-d6 | 150 | 80.3 | 54 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 55.9 | 56 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 62.5 | 62 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 78.3 | 52 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 60.2 | 60 | | 10 | 105 |
| P4722-08 | WC-2(0-6) | 2-Fluorophenol | 150 | 99.8 | 67 | | 18 | 112 |
| | | Phenol-d6 | 150 | 97.7 | 65 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 66.5 | 66 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 71.3 | 71 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 91.7 | 61 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 58.3 | 58 | | 10 | 105 |
| P4722-08DL | WC-2(0-6)DL | 2-Fluorophenol | 150 | 102 | 68 | | 18 | 112 |
| | | Phenol-d6 | 150 | 97.6 | 65 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 71.4 | 71 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 81.2 | 81 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 77.8 | 52 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 62.7 | 63 | | 10 | 105 |
| P4722-13 | WC-3(0-6) | 2-Fluorophenol | 150 | 86.4 | 58 | | 18 | 112 |
| | | Phenol-d6 | 150 | 87.1 | 58 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 55.5 | 56 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 65.8 | 66 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 68.8 | 46 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 46.1 | 46 | | 10 | 105 |
| P4737-01MS | TP2MS | 2-Fluorophenol | 150 | 95.0 | 63 | | 18 | 112 |
| | | Phenol-d6 | 150 | 94.5 | 63 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 63.7 | 64 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 67.6 | 68 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 98.0 | 65 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 57.2 | 57 | | 10 | 105 |
| P4737-01MSD | TP2MSD | 2-Fluorophenol | 150 | 97.9 | 65 | | 18 | 112 |
| | | Phenol-d6 | 150 | 97.6 | 65 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 65.0 | 65 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 69.2 | 69 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 100 | 67 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 59.5 | 59 | | 10 | 105 |
| PB164750BL | PB164750BL | 2-Fluorophenol | 150 | 169 | 113 | * | 18 | 112 |
| | | Phenol-d6 | 150 | 154 | 102 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 104 | 104 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 105 | 105 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 153 | 102 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 105 | 105 | | 10 | 105 |
| PB164750BS | PB164750BS | 2-Fluorophenol | 150 | 114 | 76 | | 18 | 112 |
| | | Phenol-d6 | 150 | 112 | 75 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 76.4 | 76 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 75.1 | 75 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 144 | 96 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 84.5 | 84 | | 10 | 105 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4737-01MS** | | **Client Sample ID: TP2MS** | | | | | | **DataFile: BF140300.D** | | | |
| Benzaldehyde | 1100 | 0 | 220 | ug/Kg | 20 | | | | 10 | 86 | |
| Phenol | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 67 | 126 | |
| bis(2-Chloroethyl)ether | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 54 | 125 | |
| 2-Chlorophenol | 1100 | 0 | 1200 | ug/Kg | 109 | * | | | 79 | 107 | |
| 2-Methylphenol | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 66 | 122 | |
| 2,2-oxybis(1-Chloropropane) | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 65 | 110 | |
| Acetophenone | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 75 | 111 | |
| 3+4-Methylphenols | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 66 | 104 | |
| N-Nitroso-di-n-propylamine | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 59 | 119 | |
| Hexachloroethane | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 65 | 117 | |
| Nitrobenzene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 70 | 119 | |
| Isophorone | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 76 | 122 | |
| 2-Nitrophenol | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 54 | 145 | |
| 2,4-Dimethylphenol | 1100 | 0 | 1400 | ug/Kg | 127 | | | | 44 | 135 | |
| bis(2-Chloroethoxy)methane | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 68 | 112 | |
| 2,4-Dichlorophenol | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 72 | 118 | |
| Naphthalene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 72 | 110 | |
| 4-Chloroaniline | 1100 | 0 | 360 | ug/Kg | 33 | | | | 10 | 91 | |
| Hexachlorobutadiene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 66 | 114 | |
| Caprolactam | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 51 | 134 | |
| 4-Chloro-3-methylphenol | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 57 | 132 | |
| 2-Methylnaphthalene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 59 | 123 | |
| Hexachlorocyclopentadiene | 2200 | 0 | 1400 | ug/Kg | 64 | | | | 10 | 175 | |
| 2,4,6-Trichlorophenol | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 72 | 117 | |
| 2,4,5-Trichlorophenol | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 72 | 117 | |
| 1,1-Biphenyl | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 75 | 113 | |
| 2-Chloronaphthalene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 67 | 118 | |
| 2-Nitroaniline | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 69 | 127 | |
| Dimethylphthalate | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 70 | 113 | |
| Acenaphthylene | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 79 | 118 | |
| 2,6-Dinitrotoluene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 | 125 | |
| 3-Nitroaniline | 1100 | 0 | 660 | ug/Kg | 60 | | | | 30 | 99 | |
| Acenaphthene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 | 121 | |
| 2,4-Dinitrophenol | 2200 | 0 | 1100 | ug/Kg | 50 | | | | 10 | 155 | |
| 4-Nitrophenol | 2200 | 0 | 2400 | ug/Kg | 109 | | | | 45 | 133 | |
| Dibenzofuran | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 72 | 110 | |
| 2,4-Dinitrotoluene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 55 | 128 | |
| Diethylphthalate | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 70 | 112 | |
| 4-Chlorophenyl-phenylether | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 71 | 108 | |
| Fluorene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 68 | 116 | |
| 4-Nitroaniline | 1100 | 0 | 950 | ug/Kg | 86 | | | | 55 | 120 | |
| 4,6-Dinitro-2-methylphenol | 1100 | 0 | 710 | ug/Kg | 65 | | | | 10 | 160 | |
| N-Nitrosodiphenylamine | 1100 | 0 | 1300 | ug/Kg | 118 | | | | 73 | 118 | |
| 4-Bromophenyl-phenylether | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 65 | 121 | |
| Hexachlorobenzene | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 67 | 118 | |
| Atrazine | 1100 | 0 | 1600 | ug/Kg | 145 | * | | | 79 | 127 | |

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Fax : 908 789 8922

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 2200 | 0 | 2300 | ug/Kg | 105 | | | | 47 | 128 | |
| Phenanthrene | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 52 | 128 | |
| Anthracene | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 62 | 124 | |
| Carbazole | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 59 | 119 | |
| Di-n-butylphthalate | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 69 | 118 | |
| Fluoranthene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 44 | 125 | |
| Pyrene | 1100 | 0 | 990 | ug/Kg | 90 | | | | 26 | 142 | |
| Butylbenzylphthalate | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 64 | 126 | |
| 3,3-Dichlorobenzidine | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 33 | 116 | |
| Benzo(a)anthracene | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 71 | 114 | |
| Chrysene | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 57 | 121 | |
| bis(2-Ethylhexyl)phthalate | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 42 | 169 | |
| Di-n-octyl phthalate | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 23 | 175 | |
| Benzo(b)fluoranthene | 1100 | 0 | 1300 | ug/Kg | 118 | | | | 67 | 121 | |
| Benzo(k)fluoranthene | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 57 | 134 | |
| Benzo(a)pyrene | 1100 | 0 | 1300 | ug/Kg | 118 | | | | 70 | 142 | |
| Indeno(1,2,3-cd)pyrene | 1100 | 0 | 1100 | ug/Kg | 100 | | | | 40 | 129 | |
| Dibenz(a,h)anthracene | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 43 | 123 | |
| Benzo(g,h,i)perylene | 1100 | 0 | 950 | ug/Kg | 86 | | | | 24 | 125 | |
| 1,2,4,5-Tetrachlorobenzene | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 69 | 124 | |
| 1,4-Dioxane | 1100 | 0 | 1000 | ug/Kg | 91 | | | | 46 | 112 | |
| 2,3,4,6-Tetrachlorophenol | 1100 | 0 | 1200 | ug/Kg | 109 | | | | 69 | 112 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4737-01MSD** | | **Client Sample ID: TP2MSD** | | | | | | **DataFile: BF140301.D** | | | |
| Benzaldehyde | 1100 | 0 | 230 | ug/Kg | 21 | | 5 | | 10 | 86 | 20 |
| Phenol | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 67 | 126 | 20 |
| bis(2-Chloroethyl)ether | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 54 | 125 | 20 |
| 2-Chlorophenol | 1100 | 0 | 1200 | ug/Kg | 109 | * | 0 | | 79 | 107 | 20 |
| 2-Methylphenol | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 66 | 122 | 20 |
| 2,2-oxybis(1-Chloropropane) | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 65 | 110 | 20 |
| Acetophenone | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 75 | 111 | 20 |
| 3+4-Methylphenols | 1100 | 0 | 1200 | ug/Kg | 109 | * | 9 | | 66 | 104 | 20 |
| N-Nitroso-di-n-propylamine | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 59 | 119 | 20 |
| Hexachloroethane | 1100 | 0 | 1000 | ug/Kg | 91 | | 0 | | 65 | 117 | 20 |
| Nitrobenzene | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 70 | 119 | 20 |
| Isophorone | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 76 | 122 | 20 |
| 2-Nitrophenol | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 54 | 145 | 20 |
| 2,4-Dimethylphenol | 1100 | 0 | 1400 | ug/Kg | 127 | | 0 | | 44 | 135 | 20 |
| bis(2-Chloroethoxy)methane | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 68 | 112 | 20 |
| 2,4-Dichlorophenol | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 72 | 118 | 20 |
| Naphthalene | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 72 | 110 | 20 |
| 4-Chloroaniline | 1100 | 0 | 390 | ug/Kg | 35 | | 6 | | 10 | 91 | 20 |
| Hexachlorobutadiene | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 66 | 114 | 20 |
| Caprolactam | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 51 | 134 | 20 |
| 4-Chloro-3-methylphenol | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 57 | 132 | 20 |
| 2-Methylnaphthalene | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 59 | 123 | 20 |
| Hexachlorocyclopentadiene | 2200 | 0 | 1500 | ug/Kg | 68 | | 6 | | 10 | 175 | 20 |
| 2,4,6-Trichlorophenol | 1100 | 0 | 1300 | ug/Kg | 118 | * | 8 | | 72 | 117 | 20 |
| 2,4,5-Trichlorophenol | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 72 | 117 | 20 |
| 1,1-Biphenyl | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 75 | 113 | 20 |
| 2-Chloronaphthalene | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 67 | 118 | 20 |
| 2-Nitroaniline | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 69 | 127 | 20 |
| Dimethylphthalate | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 70 | 113 | 20 |
| Acenaphthylene | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 79 | 118 | 20 |
| 2,6-Dinitrotoluene | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 70 | 125 | 20 |
| 3-Nitroaniline | 1100 | 0 | 670 | ug/Kg | 61 | | 2 | | 30 | 99 | 20 |
| Acenaphthene | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 70 | 121 | 20 |
| 2,4-Dinitrophenol | 2200 | 0 | 1100 | ug/Kg | 50 | | 0 | | 10 | 155 | 20 |
| 4-Nitrophenol | 2200 | 0 | 2500 | ug/Kg | 114 | | 4 | | 45 | 133 | 20 |
| Dibenzofuran | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 72 | 110 | 20 |
| 2,4-Dinitrotoluene | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 55 | 128 | 20 |
| Diethylphthalate | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 70 | 112 | 20 |
| 4-Chlorophenyl-phenylether | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 71 | 108 | 20 |
| Fluorene | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 68 | 116 | 20 |
| 4-Nitroaniline | 1100 | 0 | 970 | ug/Kg | 88 | | 2 | | 55 | 120 | 20 |
| 4,6-Dinitro-2-methylphenol | 1100 | 0 | 800 | ug/Kg | 73 | | 12 | | 10 | 160 | 20 |
| N-Nitrosodiphenylamine | 1100 | 0 | 1300 | ug/Kg | 118 | | 0 | | 73 | 118 | 20 |
| 4-Bromophenyl-phenylether | 1100 | 0 | 1300 | ug/Kg | 118 | | 8 | | 65 | 121 | 20 |
| Hexachlorobenzene | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 67 | 118 | 20 |
| Atrazine | 1100 | 0 | 1600 | ug/Kg | 145 | * | 0 | | 79 | 127 | 20 |

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Fax : 908 789 8922

## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 2200 | 0 | 2400 | ug/Kg | 109 | | 4 | | 47 | 128 | 20 |
| Phenanthrene | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 52 | 128 | 20 |
| Anthracene | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 62 | 124 | 20 |
| Carbazole | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 59 | 119 | 20 |
| Di-n-butylphthalate | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 69 | 118 | 20 |
| Fluoranthene | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 44 | 125 | 20 |
| Pyrene | 1100 | 0 | 1000 | ug/Kg | 91 | | 1 | | 26 | 142 | 20 |
| Butylbenzylphthalate | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 64 | 126 | 20 |
| 3,3-Dichlorobenzidine | 1100 | 0 | 1200 | ug/Kg | 109 | | 9 | | 33 | 116 | 20 |
| Benzo(a)anthracene | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 71 | 114 | 20 |
| Chrysene | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 57 | 121 | 20 |
| bis(2-Ethylhexyl)phthalate | 1100 | 0 | 1000 | ug/Kg | 91 | | 0 | | 42 | 169 | 20 |
| Di-n-octyl phthalate | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 23 | 175 | 20 |
| Benzo(b)fluoranthene | 1100 | 0 | 1400 | ug/Kg | 127 | * | 7 | | 67 | 121 | 20 |
| Benzo(k)fluoranthene | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 57 | 134 | 20 |
| Benzo(a)pyrene | 1100 | 0 | 1300 | ug/Kg | 118 | | 0 | | 70 | 142 | 20 |
| Indeno(1,2,3-cd)pyrene | 1100 | 0 | 1100 | ug/Kg | 100 | | 0 | | 40 | 129 | 20 |
| Dibenz(a,h)anthracene | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 43 | 123 | 20 |
| Benzo(g,h,i)perylene | 1100 | 0 | 980 | ug/Kg | 89 | | 3 | | 24 | 125 | 20 |
| 1,2,4,5-Tetrachlorobenzene | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 69 | 124 | 20 |
| 1,4-Dioxane | 1100 | 0 | 1100 | ug/Kg | 100 | | 9 | | 46 | 112 | 20 |
| 2,3,4,6-Tetrachlorophenol | 1100 | 0 | 1200 | ug/Kg | 109 | | 0 | | 69 | 112 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8270E **DataFile:** BF140288.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164750BS | Benzaldehyde | 1700 | 240 | ug/Kg | 14 | | | | 10 | 133 | |
| | Phenol | 1700 | 1400 | ug/Kg | 82 | | | | 62 | 112 | |
| | bis(2-Chloroethyl)ether | 1700 | 1400 | ug/Kg | 82 | | | | 60 | 101 | |
| | 2-Chlorophenol | 1700 | 1400 | ug/Kg | 82 | | | | 65 | 112 | |
| | 2-Methylphenol | 1700 | 1400 | ug/Kg | 82 | | | | 61 | 108 | |
| | 2,2-oxybis(1-Chloropropane) | 1700 | 1300 | ug/Kg | 76 | | | | 51 | 100 | |
| | Acetophenone | 1700 | 1300 | ug/Kg | 76 | | | | 66 | 98 | |
| | 3+4-Methylphenols | 1700 | 1400 | ug/Kg | 82 | | | | 58 | 111 | |
| | N-Nitroso-di-n-propylamine | 1700 | 1400 | ug/Kg | 82 | | | | 63 | 95 | |
| | Hexachloroethane | 1700 | 1300 | ug/Kg | 76 | | | | 72 | 108 | |
| | Nitrobenzene | 1700 | 1200 | ug/Kg | 71 | | | | 57 | 101 | |
| | Isophorone | 1700 | 1400 | ug/Kg | 82 | | | | 59 | 99 | |
| | 2-Nitrophenol | 1700 | 1500 | ug/Kg | 88 | | | | 61 | 111 | |
| | 2,4-Dimethylphenol | 1700 | 1700 | ug/Kg | 100 | | | | 46 | 141 | |
| | bis(2-Chloroethoxy)methane | 1700 | 1300 | ug/Kg | 76 | | | | 66 | 97 | |
| | 2,4-Dichlorophenol | 1700 | 1400 | ug/Kg | 82 | | | | 62 | 107 | |
| | Naphthalene | 1700 | 1300 | ug/Kg | 76 | | | | 62 | 100 | |
| | 4-Chloroaniline | 1700 | 1300 | ug/Kg | 76 | | | | 16 | 100 | |
| | Hexachlorobutadiene | 1700 | 1300 | ug/Kg | 76 | | | | 53 | 98 | |
| | Caprolactam | 1700 | 1300 | ug/Kg | 76 | | | | 67 | 110 | |
| | 4-Chloro-3-methylphenol | 1700 | 1400 | ug/Kg | 82 | | | | 58 | 112 | |
| | 2-Methylnaphthalene | 1700 | 1400 | ug/Kg | 82 | | | | 60 | 104 | |
| | Hexachlorocyclopentadiene | 3300 | 5500 | ug/Kg | 167 | | * | | 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 | 1300 | ug/Kg | 76 | | | | 57 | 103 | |
| | 2-Chloronaphthalene | 1700 | 1300 | ug/Kg | 76 | | | | 58 | 99 | |
| | 2-Nitroaniline | 1700 | 1300 | ug/Kg | 76 | | | | 66 | 101 | |
| | Dimethylphthalate | 1700 | 1400 | ug/Kg | 82 | | | | 61 | 99 | |
| | Acenaphthylene | 1700 | 1400 | ug/Kg | 82 | | | | 63 | 101 | |
| | 2,6-Dinitrotoluene | 1700 | 1400 | ug/Kg | 82 | | | | 61 | 104 | |
| | 3-Nitroaniline | 1700 | 1200 | ug/Kg | 71 | | | | 28 | 100 | |
| | Acenaphthene | 1700 | 1500 | ug/Kg | 88 | | | | 57 | 104 | |
| | 2,4-Dinitrophenol | 3300 | 3200 | ug/Kg | 97 | | | | 37 | 128 | |
| | 4-Nitrophenol | 3300 | 3100 | ug/Kg | 94 | | | | 48 | 119 | |
| | Dibenzofuran | 1700 | 1300 | ug/Kg | 76 | | | | 63 | 99 | |
| | 2,4-Dinitrotoluene | 1700 | 1400 | ug/Kg | 82 | | | | 60 | 106 | |
| | Diethylphthalate | 1700 | 1400 | ug/Kg | 82 | | | | 60 | 101 | |
| | 4-Chlorophenyl-phenylether | 1700 | 1300 | ug/Kg | 76 | | | | 58 | 98 | |
| | Fluorene | 1700 | 1300 | ug/Kg | 76 | | | | 61 | 101 | |
| | 4-Nitroaniline | 1700 | 1500 | ug/Kg | 88 | | | | 64 | 103 | |
| | 4,6-Dinitro-2-methylphenol | 1700 | 1700 | ug/Kg | 100 | | | | 76 | 113 | |
| | N-Nitrosodiphenylamine | 1700 | 1300 | ug/Kg | 76 | | | | 71 | 99 | |
| | 4-Bromophenyl-phenylether | 1700 | 1400 | ug/Kg | 82 | | | | 66 | 102 | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8270E **DataFile:** BF140288.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164750BS | Hexachlorobenzene | 1700 | 1400 | ug/Kg | 82 | | | | 64 | 98 | |
| | Atrazine | 1700 | 1600 | ug/Kg | 94 | | | | 47 | 152 | |
| | Pentachlorophenol | 3300 | 3100 | ug/Kg | 94 | | | | 67 | 105 | |
| | Phenanthrene | 1700 | 1400 | ug/Kg | 82 | | | | 59 | 103 | |
| | Anthracene | 1700 | 1400 | ug/Kg | 82 | | | | 61 | 105 | |
| | Carbazole | 1700 | 1400 | ug/Kg | 82 | | | | 61 | 99 | |
| | Di-n-butylphthalate | 1700 | 1400 | ug/Kg | 82 | | | | 58 | 104 | |
| | Fluoranthene | 1700 | 1400 | ug/Kg | 82 | | | | 57 | 107 | |
| | Pyrene | 1700 | 1400 | ug/Kg | 82 | | | | 59 | 103 | |
| | Butylbenzylphthalate | 1700 | 1500 | ug/Kg | 88 | | | | 55 | 103 | |
| | 3,3-Dichlorobenzidine | 1700 | 1300 | ug/Kg | 76 | | | | 42 | 91 | |
| | Benzo(a)anthracene | 1700 | 1400 | ug/Kg | 82 | | | | 60 | 102 | |
| | Chrysene | 1700 | 1400 | ug/Kg | 82 | | | | 59 | 101 | |
| | bis(2-Ethylhexyl)phthalate | 1700 | 1500 | ug/Kg | 88 | | | | 54 | 135 | |
| | Di-n-octyl phthalate | 1700 | 1500 | ug/Kg | 88 | | | | 52 | 137 | |
| | Benzo(b)fluoranthene | 1700 | 1500 | ug/Kg | 88 | | | | 62 | 109 | |
| | Benzo(k)fluoranthene | 1700 | 1400 | ug/Kg | 82 | | | | 62 | 109 | |
| | Benzo(a)pyrene | 1700 | 1500 | ug/Kg | 88 | | | | 63 | 103 | |
| | Indeno(1,2,3-cd)pyrene | 1700 | 1500 | ug/Kg | 88 | | | | 63 | 101 | |
| | Dibenz(a,h)anthracene | 1700 | 1400 | ug/Kg | 82 | | | | 61 | 112 | |
| | Benzo(g,h,i)perylene | 1700 | 1300 | ug/Kg | 76 | | | | 70 | 108 | |
| | 1,2,4,5-Tetrachlorobenzene | 1700 | 1300 | ug/Kg | 76 | | | | 53 | 101 | |
| | 1,4-Dioxane | 1700 | 1000 | ug/Kg | 59 | | | | 50 | 96 | |
| | 2,3,4,6-Tetrachlorophenol | 1700 | 1600 | ug/Kg | 94 | | | | 59 | 108 | |

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Fax : 908 789 8922



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164750BL

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: BE101545.D Lab Sample ID: PB164750BL

Instrument ID: BNA_E Date Extracted: 11/07/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/08/2024

Level: (low/med) LOW Time Analyzed: 10:51

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| WC-3(0-6) | P4722-13 | BF140280.D | 11/07/2024 |
| TP2MS | P4737-01MS | BF140300.D | 11/08/2024 |
| TP2MSD | P4737-01MSD | BF140301.D | 11/08/2024 |
| WC-2(0-6) | P4722-08 | BF140303.D | 11/08/2024 |
| WC-1(0-6) | P4722-03 | BF140305.D | 11/08/2024 |
| PB164750BS | PB164750BS | BF140288.D | 11/08/2024 |

COMMENTS:

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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BE101491.D DFTPP Injection Date: 11/06/2024

Instrument ID: BNA_E DFTPP Injection Time: 11:40

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 14.8 |
| 68 | Less than 2.0% of mass 69 | 0.2 ( 1.3 ) 1 |
| 69 | Mass 69 relative abundance | 16 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.4 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 23.5 |
| 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 | 3.6 |
| 275 | 10.0 - 60.0% of mass 198 | 18.3 |
| 365 | Greater than 1% of mass 198 | 2.9 |
| 441 | Present, but less than mass 443 | 16.4 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.6 (19.6) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BE101493.D | 11/06/2024 | 13:51 |
| SSTDICC005 | SSTDICC005 | BE101494.D | 11/06/2024 | 14:27 |
| SSTDICC010 | SSTDICC010 | BE101495.D | 11/06/2024 | 15:03 |
| SSTDICC020 | SSTDICC020 | BE101496.D | 11/06/2024 | 15:39 |
| SSTDICCC040 | SSTDICCC040 | BE101497.D | 11/06/2024 | 16:14 |
| SSTDICC050 | SSTDICC050 | BE101498.D | 11/06/2024 | 16:50 |
| SSTDICC060 | SSTDICC060 | BE101499.D | 11/06/2024 | 17:26 |
| SSTDICC080 | SSTDICC080 | BE101500.D | 11/06/2024 | 18:02 |

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Fax : 908 789 8922

5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BE101543.D DFTPP Injection Date: 11/08/2024

Instrument ID: BNA_E DFTPP Injection Time: 09:34

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 16.2 |
| 68 | Less than 2.0% of mass 69 | 0.2 ( 1 ) 1 |
| 69 | Mass 69 relative abundance | 17.2 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 24.7 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 3.8 |
| 275 | 10.0 - 60.0% of mass 198 | 19.1 |
| 365 | Greater than 1% of mass 198 | 3 |
| 441 | Present, but less than mass 443 | 16.4 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.3 (19.3) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BE101544.D | 11/08/2024 | 10:07 |
| PB164750BL | PB164750BL | BE101545.D | 11/08/2024 | 10:51 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140230.D DFTPP Injection Date: 11/05/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:56

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 38.4 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.6 ) 1 |
| 69 | Mass 69 relative abundance | 36.6 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 45.5 |
| 197 | Less than 2.0% of mass 198 | 0.7 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 27.8 |
| 365 | Greater than 1% of mass 198 | 4.1 |
| 441 | Present, but less than mass 443 | 15.6 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19 ( 19 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF140231.D | 11/05/2024 | 12:26 |
| SSTDICC005 | SSTDICC005 | BF140232.D | 11/05/2024 | 12:52 |
| SSTDICC010 | SSTDICC010 | BF140233.D | 11/05/2024 | 13:18 |
| SSTDICC020 | SSTDICC020 | BF140234.D | 11/05/2024 | 13:45 |
| SSTDICCC040 | SSTDICCC040 | BF140235.D | 11/05/2024 | 14:11 |
| SSTDICC050 | SSTDICC050 | BF140236.D | 11/05/2024 | 14:37 |
| SSTDICC060 | SSTDICC060 | BF140237.D | 11/05/2024 | 15:03 |
| SSTDICC080 | SSTDICC080 | BF140238.D | 11/05/2024 | 15:30 |

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5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140260.D DFTPP Injection Date: 11/07/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:33

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 35.9 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 35.3 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 44.4 |
| 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 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 28.1 |
| 365 | Greater than 1% of mass 198 | 3.8 |
| 441 | Present, but less than mass 443 | 15.1 |
| 442 | Greater than 50% of mass 198 | 98.8 |
| 443 | 15.0 - 24.0% of mass 442 | 19.4 (19.6) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF140261.D | 11/07/2024 | 08:59 |
| WC-3(0-6) | P4722-13 | BF140280.D | 11/07/2024 | 17:32 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140285.D DFTPP Injection Date: 11/08/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:09

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 28.4 |
| 68 | Less than 2.0% of mass 69 | 0.5 ( 2 ) 1 |
| 69 | Mass 69 relative abundance | 27.7 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 36.3 |
| 197 | Less than 2.0% of mass 198 | 0.5 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 5.8 |
| 275 | 10.0 - 60.0% of mass 198 | 25.2 |
| 365 | Greater than 1% of mass 198 | 3.3 |
| 441 | Present, but less than mass 443 | 15.2 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.4 (19.4) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF140286.D | 11/08/2024 | 09:35 |
| PB164750BS | PB164750BS | BF140288.D | 11/08/2024 | 10:28 |
| TP2MS | P4737-01MS | BF140300.D | 11/08/2024 | 15:51 |
| TP2MSD | P4737-01MSD | BF140301.D | 11/08/2024 | 16:17 |
| WC-2(0-6) | P4722-08 | BF140303.D | 11/08/2024 | 17:10 |
| WC-1(0-6) | P4722-03 | BF140305.D | 11/08/2024 | 18:03 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140331.D DFTPP Injection Date: 11/13/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:35

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 36.9 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 38 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.6 |
| 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 | 6.4 |
| 275 | 10.0 - 60.0% of mass 198 | 28.3 |
| 365 | Greater than 1% of mass 198 | 3.5 |
| 441 | Present, but less than mass 443 | 14 |
| 442 | Greater than 50% of mass 198 | 88.6 |
| 443 | 15.0 - 24.0% of mass 442 | 16.7 (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:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF140332.D | 11/13/2024 | 09:01 |
| SSTDICC005 | SSTDICC005 | BF140333.D | 11/13/2024 | 09:27 |
| SSTDICC010 | SSTDICC010 | BF140334.D | 11/13/2024 | 09:53 |
| SSTDICC020 | SSTDICC020 | BF140335.D | 11/13/2024 | 10:29 |
| SSTDICC050 | SSTDICC050 | BF140337.D | 11/13/2024 | 11:21 |
| SSTDICC060 | SSTDICC060 | BF140338.D | 11/13/2024 | 11:47 |
| SSTDICC080 | SSTDICC080 | BF140339.D | 11/13/2024 | 12:13 |
| SSTDICCC040 | SSTDICCC040 | BF140340.D | 11/13/2024 | 12:48 |

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5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140365.D DFTPP Injection Date: 11/14/2024

Instrument ID: BNA_F DFTPP Injection Time: 16:35

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 38.3 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 39.7 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.6 |
| 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 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 28.2 |
| 365 | Greater than 1% of mass 198 | 3.4 |
| 441 | Present, but less than mass 443 | 12.8 |
| 442 | Greater than 50% of mass 198 | 82.7 |
| 443 | 15.0 - 24.0% of mass 442 | 15.3 (18.4) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF140366.D | 11/14/2024 | 17:02 |
| WC-2(0-6)DL | P4722-08DL | BF140377.D | 11/14/2024 | 21:54 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BE101544.D Time Analyzed: 10:07

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 51174 | 7.558 | 237509 | 10.33 | 179651 | 14.17 |
| | UPPER LIMIT | 102348 | 8.058 | 475018 | 10.826 | 359302 | 14.674 |
| | LOWER LIMIT | 25587 | 7.058 | 118755 | 9.826 | 89825.5 | 13.674 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164750BL | 34636 | 7.56 | 145179 | 10.33 | 93474 | 14.17 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BE101544.D Time Analyzed: 10:07

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 420948 | 16.912 | 472751 | 21.072 | 602462 | 23.357 |
| | UPPER LIMIT | 841896 | 17.412 | 945502 | 21.572 | 1204920 | 23.857 |
| | LOWER LIMIT | 210474 | 16.412 | 236376 | 20.572 | 301231 | 22.857 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164750BL | 229842 | 16.91 | 301745 | 21.07 | 434243 | 23.35 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/07/2024

Lab File ID: BF140261.D Time Analyzed: 08:59

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 | 194677 | 6.881 | 715714 | 8.16 | 419359 | 9.92 |
| | UPPER LIMIT | 389354 | 7.381 | 1431430 | 8.663 | 838718 | 10.422 |
| | LOWER LIMIT | 97338.5 | 6.381 | 357857 | 7.663 | 209680 | 9.422 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | WC-3(0-6) | 116141 | 6.88 | 437848 | 8.16 | 226170 | 9.92 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/07/2024

Lab File ID: BF140261.D Time Analyzed: 08:59

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 | 752975 | 11.41 | 445081 | 14.069 | 403199 | 15.574 |
| | UPPER LIMIT | 1505950 | 11.91 | 890162 | 14.569 | 806398 | 16.074 |
| | LOWER LIMIT | 376488 | 10.91 | 222541 | 13.569 | 201600 | 15.074 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | WC-3(0-6) | 319073 * | 11.40 | 257317 | 14.05 | 207144 | 15.54 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BF140286.D Time Analyzed: 09:35

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | | RT # |
|---|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 203786 | 6.881 | 760595 | 8.16 | 473134 | | 9.92 |
| | UPPER LIMIT | 407572 | 7.381 | 1521190 | 8.663 | 946268 | | 10.422 |
| | LOWER LIMIT | 101893 | 6.381 | 380298 | 7.663 | 236567 | | 9.422 |
| | EPA SAMPLE NO. | | | | | | | |
| 01 | PB164750BS | 195639 | 6.88 | 765547 | 8.16 | 473510 | | 9.92 |
| 02 | WC-1(0-6) | 116360 | 6.88 | 402526 | 8.16 | 201087 | * | 9.92 |
| 03 | WC-2(0-6) | 115521 | 6.88 | 425723 | 8.16 | 222785 | * | 9.92 |
| 04 | TP2MS | 122176 | 6.88 | 451887 | 8.16 | 246982 | | 9.92 |
| 05 | TP2MSD | 119710 | 6.88 | 448822 | 8.16 | 245092 | | 9.92 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BF140286.D Time Analyzed: 09:35

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 883136 | 11.41 | 554697 | 14.063 | 449723 | 15.551 |
| | UPPER LIMIT | 1766270 | 11.91 | 1109390 | 14.563 | 899446 | 16.051 |
| | LOWER LIMIT | 441568 | 10.91 | 277349 | 13.563 | 224862 | 15.051 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164750BS | 882492 | 11.41 | 554441 | 14.06 | 455207 | 15.56 |
| 02 | WC-1(0-6) | 343480 * | 11.40 | 223839 * | 14.06 | 183726 * | 15.56 |
| 03 | WC-2(0-6) | 343931 * | 11.40 | 256443 * | 14.07 | 206534 * | 15.58 |
| 04 | TP2MS | 380764 * | 11.41 | 270987 * | 14.06 | 205942 * | 15.56 |
| 05 | TP2MSD | 382682 * | 11.41 | 271857 * | 14.06 | 209874 * | 15.57 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140366.D Time Analyzed: 17:02

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 | 130579 | 6.875 | 484942 | 8.16 | 265027 | 9.91 |
| | UPPER LIMIT | 261158 | 7.375 | 969884 | 8.657 | 530054 | 10.41 |
| | LOWER LIMIT | 65289.5 | 6.375 | 242471 | 7.657 | 132514 | 9.41 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | WC-2(0-6)DL | 137496 | 6.88 | 500452 | 8.16 | 231647 | 9.91 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140366.D Time Analyzed: 17:02

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 | 494420 | 11.398 | 287889 | 14.062 | 258896 | 15.592 |
| | UPPER LIMIT | 988840 | 11.898 | 575778 | 14.562 | 517792 | 16.092 |
| | LOWER LIMIT | 247210 | 10.898 | 143945 | 13.562 | 129448 | 15.092 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | WC-2(0-6)DL | 343646 | 11.40 | 249695 | 14.05 | 178555 | 15.54 |

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

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

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

# QC SAMPLE DATA

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164750BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164750BL | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101545.D | 1 | 11/07/24 09:20 | 11/08/24 10:51 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 180 | U | 180 | 330 | ug/Kg |
| 108-95-2 | Phenol | 82.8 | U | 82.8 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 83.6 | U | 83.6 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 83.4 | U | 83.4 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 80.5 | U | 80.5 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 90.8 | U | 90.8 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 86.8 | U | 86.8 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 79.7 | U | 79.7 | 330 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 40.3 | U | 40.3 | 79.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 82.9 | U | 82.9 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 90.7 | U | 90.7 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 84.5 | U | 84.5 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 94.4 | U | 94.4 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 93.1 | U | 93.1 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 85.7 | U | 85.7 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 75.4 | U | 75.4 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 82.5 | U | 82.5 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 82.5 | U | 82.5 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 83.2 | U | 83.2 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 86.7 | U | 86.7 | 330 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 77.4 | U | 77.4 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 82.4 | U | 82.4 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 160 | U | 160 | 330 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 71.3 | U | 71.3 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 73.9 | U | 73.9 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 87.3 | U | 87.3 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 83.2 | U | 83.2 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 94.9 | U | 94.9 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 81.6 | U | 81.6 | 170 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164750BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164750BL | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101545.D | 1 | 11/07/24 09:20 | 11/08/24 10:51 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 86.4 | U | 86.4 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 83.1 | U | 83.1 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 89.1 | U | 89.1 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 81.0 | U | 81.0 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 240 | U | 240 | 330 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 120 | U | 120 | 330 | ug/Kg |
| 132-64-9 | Dibenzofuran | 84.3 | U | 84.3 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 86.1 | U | 86.1 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 80.0 | U | 80.0 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 85.5 | U | 85.5 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 85.4 | U | 85.4 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 110 | U | 110 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U | 120 | 330 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 81.5 | U | 81.5 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 78.8 | U | 78.8 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 84.9 | U | 84.9 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 91.3 | U | 91.3 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 77.2 | U | 77.2 | 330 | ug/Kg |
| 85-01-8 | Phenanthrene | 83.9 | U | 83.9 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 84.3 | U | 84.3 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 80.2 | U | 80.2 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 84.2 | U | 84.2 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 81.6 | U | 81.6 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 82.9 | U | 82.9 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 96.7 | U | 96.7 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 98.5 | U | 98.5 | 330 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 80.6 | U | 80.6 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 79.4 | U | 79.4 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 90.9 | U | 90.9 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 110 | U | 110 | 330 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 81.0 | U | 81.0 | 170 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164750BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164750BL | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101545.D | 1 | 11/07/24 09:20 | 11/08/24 10:51 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 82.5 | U | 82.5 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 92.9 | U | 92.9 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 78.0 | U | 78.0 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 81.1 | U | 81.1 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 80.0 | U | 80.0 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 86.7 | U | 86.7 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 110 | U | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 74.6 | U | 74.6 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 169 | * | 18 - 112 | 113% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 154 | | 15 - 107 | 102% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 104 | | 18 - 107 | 104% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 105 | | 20 - 109 | 105% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 153 | | 10 - 116 | 102% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 105 | | 10 - 105 | 105% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 34600 | 7.555 | | | |
| 1146-65-2 | Naphthalene-d8 | 145000 | 10.328 | | | |
| 15067-26-2 | Acenaphthene-d10 | 93500 | 14.171 | | | |
| 1517-22-2 | Phenanthrene-d10 | 230000 | 16.909 | | | |
| 1719-03-5 | Chrysene-d12 | 302000 | 21.069 | | | |
| 1520-96-3 | Perylene-d12 | 434000 | 23.354 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000123-42-2 | 2-Pentanone, 4-hydroxy-4-methyl- | 440 | A | | 4.78 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164750BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164750BL | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101545.D | 1 | 11/07/24 09:20 | 11/08/24 10:51 | PB164750 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164750BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164750BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % 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 |
|---|---|---|---|---|
| BF140288.D | 1 | 11/07/24 09:20 | 11/08/24 10:28 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 240 | J | 180 | 330 | ug/Kg |
| 108-95-2 | Phenol | 1400 | | 82.9 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1400 | | 83.7 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1400 | | 83.5 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1400 | | 80.6 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1300 | | 90.9 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 1300 | | 86.9 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1400 | | 79.8 | 330 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1400 | | 40.3 | 80.0 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1300 | | 83.0 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1200 | | 90.8 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 1400 | | 84.6 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1500 | | 94.5 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1700 | | 93.2 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1300 | | 85.8 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1400 | | 75.5 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 1300 | | 82.6 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 1300 | | 82.6 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1300 | | 83.3 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 1300 | | 86.8 | 330 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1400 | | 77.5 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1400 | | 82.5 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 5500 | E | 160 | 330 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1400 | | 71.4 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1400 | | 74.0 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1300 | | 87.4 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1300 | | 83.3 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1300 | | 95.0 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1400 | | 81.7 | 170 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164750BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164750BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % 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 |
|---|---|---|---|---|
| BF140288.D | 1 | 11/07/24 09:20 | 11/08/24 10:28 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1400 | | 86.5 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1400 | | 83.2 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 1200 | | 89.2 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 1500 | | 81.1 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 3200 | E | 240 | 330 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 3100 | E | 120 | 330 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1300 | | 84.4 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1400 | | 86.2 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1400 | | 80.1 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1300 | | 85.6 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 1300 | | 85.5 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1500 | | 110 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700 | | 120 | 330 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1300 | | 81.6 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1400 | | 78.9 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1400 | | 85.0 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 1600 | | 91.4 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 3100 | E | 77.3 | 330 | ug/Kg |
| 85-01-8 | Phenanthrene | 1400 | | 84.0 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 1400 | | 84.4 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 1400 | | 80.3 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1400 | | 84.3 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 1400 | | 81.7 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 1400 | | 83.0 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1500 | | 96.8 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 1300 | | 98.6 | 330 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1400 | | 80.7 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 1400 | | 79.5 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1500 | | 91.0 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1500 | | 110 | 330 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1500 | | 81.1 | 170 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164750BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164750BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % 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 |
|---|---|---|---|---|
| BF140288.D | 1 | 11/07/24 09:20 | 11/08/24 10:28 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1400 | | 82.6 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1500 | | 93.0 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1500 | | 78.1 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1400 | | 81.2 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1300 | | 80.1 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1300 | | 86.8 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1000 | | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1600 | | 74.7 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 114 | | 18 - 112 | 76% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 112 | | 15 - 107 | 75% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 76.4 | | 18 - 107 | 76% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 75.1 | | 20 - 109 | 75% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 144 | | 10 - 116 | 96% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 84.5 | | 10 - 105 | 84% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 196000 | 6.881 | | | |
| 1146-65-2 | Naphthalene-d8 | 766000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 474000 | 9.922 | | | |
| 1517-22-2 | Phenanthrene-d10 | 882000 | 11.41 | | | |
| 1719-03-5 | Chrysene-d12 | 554000 | 14.063 | | | |
| 1520-96-3 | Perylene-d12 | 455000 | 15.562 | | | |

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/06/24 |
| Client Sample ID: | TP2MS | SDG No.: | P4722 |
| Lab Sample ID: | P4737-01MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 91.4 |
| Sample Wt/Vol: | 50.05 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 |
|---|---|---|---|---|
| BF140300.D | 1 | 11/07/24 09:20 | 11/08/24 15:51 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 220 | | 120 | 220 | ug/Kg |
| 108-95-2 | Phenol | 1100 | | 54.4 | 110 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1100 | | 54.9 | 110 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1200 | | 54.8 | 110 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1100 | | 52.9 | 110 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1000 | | 59.6 | 110 | ug/Kg |
| 98-86-2 | Acetophenone | 1100 | | 57.0 | 110 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1100 | | 52.3 | 220 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1000 | | 26.4 | 52.5 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1000 | | 54.4 | 110 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1000 | | 59.5 | 110 | ug/Kg |
| 78-59-1 | Isophorone | 1100 | | 55.5 | 110 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1200 | | 62.0 | 110 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1400 | | 61.1 | 110 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1100 | | 56.3 | 110 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1200 | | 49.5 | 110 | ug/Kg |
| 91-20-3 | Naphthalene | 1100 | | 54.2 | 110 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 360 | | 54.2 | 110 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1000 | | 54.6 | 110 | ug/Kg |
| 105-60-2 | Caprolactam | 1200 | | 56.9 | 220 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1100 | | 50.8 | 110 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1100 | | 54.1 | 110 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 1400 | | 100 | 220 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1200 | | 46.8 | 110 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1200 | | 48.5 | 110 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1100 | | 57.3 | 110 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1100 | | 54.6 | 110 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1100 | | 62.3 | 110 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1200 | | 53.6 | 110 | ug/Kg |

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/06/24 |
| Client Sample ID: | TP2MS | SDG No.: | P4722 |
| Lab Sample ID: | P4737-01MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 91.4 |
| Sample Wt/Vol: | 50.05 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 |
|---|---|---|---|---|
| BF140300.D | 1 | 11/07/24 09:20 | 11/08/24 15:51 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1200 | | 56.7 | 110 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1100 | | 54.6 | 110 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 660 | | 58.5 | 110 | ug/Kg |
| 83-32-9 | Acenaphthene | 1100 | | 53.2 | 110 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 1100 | | 160 | 220 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 2400 | E | 76.1 | 220 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1100 | | 55.3 | 110 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1100 | | 56.5 | 110 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1100 | | 52.5 | 110 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1100 | | 56.1 | 110 | ug/Kg |
| 86-73-7 | Fluorene | 1100 | | 56.1 | 110 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 950 | | 70.2 | 110 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 710 | | 76.7 | 220 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1300 | | 53.5 | 110 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1200 | | 51.7 | 110 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1200 | | 55.7 | 110 | ug/Kg |
| 1912-24-9 | Atrazine | 1600 | | 59.9 | 110 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 2300 | E | 50.7 | 220 | ug/Kg |
| 85-01-8 | Phenanthrene | 1200 | | 55.1 | 110 | ug/Kg |
| 120-12-7 | Anthracene | 1200 | | 55.3 | 110 | ug/Kg |
| 86-74-8 | Carbazole | 1200 | | 52.7 | 110 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1200 | | 55.3 | 110 | ug/Kg |
| 206-44-0 | Fluoranthene | 1100 | | 53.6 | 110 | ug/Kg |
| 129-00-0 | Pyrene | 990 | | 54.4 | 110 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1100 | | 63.5 | 110 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 1100 | | 64.7 | 220 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1200 | | 52.9 | 110 | ug/Kg |
| 218-01-9 | Chrysene | 1200 | | 52.1 | 110 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1000 | | 59.7 | 110 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1100 | | 72.1 | 220 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1300 | | 53.2 | 110 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/06/24 |
| Client Sample ID: | TP2MS | SDG No.: | P4722 |
| Lab Sample ID: | P4737-01MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 91.4 |
| Sample Wt/Vol: | 50.05 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 |
|---|---|---|---|---|
| BF140300.D | 1 | 11/07/24 09:20 | 11/08/24 15:51 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1200 | | 54.2 | 110 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1300 | | 61.0 | 110 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1100 | | 51.2 | 110 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1000 | | 53.3 | 110 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 950 | | 52.5 | 110 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1200 | | 56.9 | 110 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1000 | | 72.1 | 110 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1200 | | 49.0 | 110 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 95.0 | | 18 - 112 | 63% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 94.5 | | 15 - 107 | 63% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 63.7 | | 18 - 107 | 64% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 67.6 | | 20 - 109 | 68% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 98.0 | | 10 - 116 | 65% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 57.2 | | 10 - 105 | 57% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 122000 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 452000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 247000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 381000 | 11.41 | | | |
| 1719-03-5 | Chrysene-d12 | 271000 | 14.063 | | | |
| 1520-96-3 | Perylene-d12 | 206000 | 15.563 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/06/24 |
| Client Sample ID: | TP2MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4737-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 91.4 |
| Sample Wt/Vol: | 50.07 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140301.D | 1 | 11/07/24 09:20 | 11/08/24 16:17 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 230 | | 120 | 220 | ug/Kg |
| 108-95-2 | Phenol | 1200 | | 54.3 | 110 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1100 | | 54.9 | 110 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1200 | | 54.7 | 110 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1200 | | 52.8 | 110 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1100 | | 59.6 | 110 | ug/Kg |
| 98-86-2 | Acetophenone | 1100 | | 57.0 | 110 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1200 | | 52.3 | 220 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1100 | | 26.4 | 52.4 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1000 | | 54.4 | 110 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1100 | | 59.5 | 110 | ug/Kg |
| 78-59-1 | Isophorone | 1100 | | 55.5 | 110 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1200 | | 61.9 | 110 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1400 | | 61.1 | 110 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1100 | | 56.2 | 110 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1200 | | 49.5 | 110 | ug/Kg |
| 91-20-3 | Naphthalene | 1100 | | 54.1 | 110 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 390 | | 54.1 | 110 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1100 | | 54.6 | 110 | ug/Kg |
| 105-60-2 | Caprolactam | 1100 | | 56.9 | 220 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1100 | | 50.8 | 110 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1100 | | 54.1 | 110 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 1500 | | 100 | 220 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1300 | | 46.8 | 110 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1200 | | 48.5 | 110 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1200 | | 57.3 | 110 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1100 | | 54.6 | 110 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1200 | | 62.3 | 110 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1200 | | 53.6 | 110 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/06/24 |
| Client Sample ID: | TP2MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4737-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 91.4 |
| Sample Wt/Vol: | 50.07 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140301.D | 1 | 11/07/24 09:20 | 11/08/24 16:17 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1200 | | 56.7 | 110 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1100 | | 54.5 | 110 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 670 | | 58.5 | 110 | ug/Kg |
| 83-32-9 | Acenaphthene | 1200 | | 53.2 | 110 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 1100 | | 160 | 220 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 2500 | E | 76.0 | 220 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1200 | | 55.3 | 110 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1200 | | 56.5 | 110 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1200 | | 52.5 | 110 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1100 | | 56.1 | 110 | ug/Kg |
| 86-73-7 | Fluorene | 1100 | | 56.0 | 110 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 970 | | 70.1 | 110 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 800 | | 76.7 | 220 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1300 | | 53.5 | 110 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1300 | | 51.7 | 110 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1200 | | 55.7 | 110 | ug/Kg |
| 1912-24-9 | Atrazine | 1600 | | 59.9 | 110 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 2400 | E | 50.7 | 220 | ug/Kg |
| 85-01-8 | Phenanthrene | 1200 | | 55.1 | 110 | ug/Kg |
| 120-12-7 | Anthracene | 1200 | | 55.3 | 110 | ug/Kg |
| 86-74-8 | Carbazole | 1200 | | 52.6 | 110 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1200 | | 55.3 | 110 | ug/Kg |
| 206-44-0 | Fluoranthene | 1200 | | 53.6 | 110 | ug/Kg |
| 129-00-0 | Pyrene | 1000 | | 54.4 | 110 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1100 | | 63.5 | 110 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 1200 | | 64.6 | 220 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1200 | | 52.9 | 110 | ug/Kg |
| 218-01-9 | Chrysene | 1200 | | 52.1 | 110 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1000 | | 59.7 | 110 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1100 | | 72.1 | 220 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1400 | | 53.2 | 110 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/06/24 |
| Client Sample ID: | TP2MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4737-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 91.4 |
| Sample Wt/Vol: | 50.07 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140301.D | 1 | 11/07/24 09:20 | 11/08/24 16:17 | PB164750 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1200 | | 54.1 | 110 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1300 | | 61.0 | 110 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1100 | | 51.2 | 110 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1100 | | 53.2 | 110 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 980 | | 52.5 | 110 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1200 | | 56.9 | 110 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1100 | | 72.1 | 110 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1200 | | 49.0 | 110 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 97.9 | | 18 - 112 | 65% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 97.6 | | 15 - 107 | 65% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 65.0 | | 18 - 107 | 65% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 69.2 | | 20 - 109 | 69% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 100 | | 10 - 116 | 67% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 59.5 | | 10 - 105 | 59% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 120000 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 449000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 245000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 383000 | 11.41 | | | |
| 1719-03-5 | Chrysene-d12 | 272000 | 14.063 | | | |
| 1520-96-3 | Perylene-d12 | 210000 | 15.568 | | | |

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_E

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 07 00:01:20 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BE101493.D 5 =BE101494.D 10 =BE101495.D 20 =BE101496.D 40 =BE101497.D 50 =BE101498.D 60 =BE101499.D 80 =BE101500.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.495 | 0.458 | 0.438 | 0.406 | 0.378 | 0.394 | 0.378 | 0.421 | 10.54 |
| 3) | | Pyridine | | 1.154 | 1.183 | 1.143 | 1.154 | 1.192 | 1.230 | 1.186 | 1.177 | 2.53 |
| 4) | | n-Nitrosodimet... | | 0.509 | 0.465 | 0.446 | 0.445 | 0.461 | 0.473 | 0.464 | 0.466 | 4.58 |
| 5) | S | 2-Fluorophenol | | 1.161 | 1.135 | 1.120 | 1.101 | 1.114 | 1.159 | 1.127 | 1.131 | 1.99 |
| 6) | | Aniline | | 1.323 | 1.251 | 1.316 | 1.368 | 1.026 | 1.044 | 0.819 | 1.164 | 17.52 |
| 7) | S | Phenol-d6 | | 1.494 | 1.525 | 1.558 | 1.540 | 1.571 | 1.617 | 1.551 | 1.551 | 2.49 |
| 8) | | 2-Chlorophenol | | 1.339 | 1.343 | 1.359 | 1.316 | 1.336 | 1.364 | 1.324 | 1.340 | 1.30 |
| 9) | | Benzaldehyde | | 0.902 | 0.930 | 0.875 | 0.767 | 0.654 | 0.640 | 0.542 | 0.759 | 19.80 |
| 10) | C | Phenol | | 1.646 | 1.682 | 1.702 | 1.664 | 1.709 | 1.764 | 1.649 | 1.688 | 2.45 |
| 11) | | bis(2-Chloroet... | | 1.362 | 1.474 | 1.392 | 1.165 | 1.446 | 1.447 | 1.497 | 1.397 | 8.03 |
| 12) | | 1,3-Dichlorobe... | | 1.573 | 1.526 | 1.491 | 1.424 | 1.410 | 1.437 | 1.379 | 1.463 | 4.74 |
| 13) | C | 1,4-Dichlorobe... | | 1.565 | 1.543 | 1.508 | 1.444 | 1.437 | 1.464 | 1.412 | 1.482 | 3.89 |
| 14) | | 1,2-Dichlorobe... | | 1.559 | 1.496 | 1.481 | 1.418 | 1.416 | 1.435 | 1.378 | 1.455 | 4.20 |
| 15) | | Benzyl Alcohol | | 0.791 | 0.861 | 0.910 | 0.919 | 0.958 | 0.977 | 0.926 | 0.906 | 6.94 |
| 16) | | 2,2'-oxybis(1-... | | 1.733 | 1.690 | 1.700 | 1.628 | 1.625 | 1.636 | 1.567 | 1.654 | 3.41 |
| 17) | | 2-Methylphenol | | 1.015 | 1.041 | 1.073 | 1.113 | 1.123 | 1.163 | 1.123 | 1.093 | 4.76 |
| 18) | | Hexachloroethane | | 0.524 | 0.509 | 0.507 | 0.484 | 0.494 | 0.501 | 0.483 | 0.500 | 2.95 |
| 19) | P | n-Nitroso-di-n... | 0.958 | 0.996 | 1.040 | 1.058 | 1.027 | 1.046 | 1.057 | 0.998 | 1.023 | 3.48 |
| 20) | | 3+4-Methylphenols | | 1.376 | 1.483 | 1.529 | 1.524 | 1.558 | 1.606 | 1.530 | 1.515 | 4.74 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.462 | 0.460 | 0.461 | 0.443 | 0.447 | 0.455 | 0.443 | 0.453 | 1.91 |
| 23) | S | Nitrobenzene-d5 | | 0.313 | 0.316 | 0.318 | 0.312 | 0.318 | 0.325 | 0.313 | 0.317 | 1.46 |
| 24) | | Nitrobenzene | | 0.325 | 0.329 | 0.330 | 0.324 | 0.329 | 0.338 | 0.330 | 0.329 | 1.41 |
| 25) | | Isophorone | | 0.599 | 0.619 | 0.632 | 0.611 | 0.618 | 0.630 | 0.605 | 0.616 | 1.98 |
| 26) | C | 2-Nitrophenol | | 0.159 | 0.167 | 0.175 | 0.174 | 0.182 | 0.187 | 0.183 | 0.175 | 5.41 |
| 27) | | 2,4-Dimethylph... | | 0.196 | 0.199 | 0.204 | 0.198 | 0.205 | 0.212 | 0.206 | 0.203 | 2.83 |
| 28) | | bis(2-Chloroet... | | 0.376 | 0.383 | 0.386 | 0.371 | 0.375 | 0.381 | 0.369 | 0.377 | 1.65 |
| 29) | C | 2,4-Dichloroph... | | 0.275 | 0.279 | 0.289 | 0.283 | 0.294 | 0.302 | 0.294 | 0.288 | 3.35 |
| 30) | | 1,2,4-Trichlor... | | 0.344 | 0.326 | 0.323 | 0.311 | 0.313 | 0.321 | 0.312 | 0.321 | 3.63 |
| 31) | | Naphthalene | | 1.071 | 1.033 | 1.027 | 0.983 | 0.983 | 1.003 | 0.968 | 1.010 | 3.58 |
| 32) | | Benzoic acid | | | 0.112 | 0.137 | 0.166 | 0.191 | 0.202 | 0.202 | 0.168 | 22.18 |
| 33) | | 4-Chloroaniline | | 0.342 | 0.364 | 0.371 | 0.358 | 0.356 | 0.361 | 0.334 | 0.355 | 3.65 |
| 34) | C | Hexachlorobuta... | | 0.209 | 0.198 | 0.202 | 0.192 | 0.195 | 0.198 | 0.193 | 0.198 | 2.95 |
| 35) | | Caprolactam | | 0.097 | 0.107 | 0.107 | 0.107 | 0.106 | 0.111 | 0.105 | 0.106 | 4.09 |
| 36) | C | 4-Chloro-3-met... | | 0.293 | 0.318 | 0.316 | 0.312 | 0.318 | 0.327 | 0.317 | 0.314 | 3.27 |
| 37) | | 2-Methylnaphth... | | 0.744 | 0.733 | 0.733 | 0.706 | 0.705 | 0.715 | 0.684 | 0.717 | 2.93 |
| 38) | | 1-Methylnaphth... | | 0.752 | 0.738 | 0.734 | 0.696 | 0.697 | 0.711 | 0.679 | 0.715 | 3.72 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.546 | 0.518 | 0.535 | 0.513 | 0.519 | 0.535 | 0.525 | 0.527 | 2.24 |
| 41) | P | Hexachlorocycl... | 0.106 | 0.128 | 0.153 | 0.167 | 0.175 | 0.178 | 0.171 | 0.154 | 17.72 |
| 42) | S | 2,4,6-Tribromo... | 0.388 | 0.391 | 0.391 | 0.369 | 0.364 | 0.375 | 0.357 | 0.376 | 3.64 |
| 43) | C | 2,4,6-Trichlor... | 0.358 | 0.352 | 0.360 | 0.358 | 0.361 | 0.376 | 0.369 | 0.362 | 2.21 |
| 44) | | 2,4,5-Trichlor... | 0.390 | 0.381 | 0.402 | 0.400 | 0.411 | 0.425 | 0.415 | 0.403 | 3.71 |
| 45) | S | 2-Fluorobiphenyl | 1.353 | 1.295 | 1.299 | 1.204 | 1.160 | 1.163 | 1.100 | 1.225 | 7.52 |
| 46) | | 1,1'-Biphenyl | 1.451 | 1.416 | 1.424 | 1.336 | 1.344 | 1.366 | 1.320 | 1.380 | 3.66 |
| 47) | | 2-Chloronaphth... | 1.124 | 1.104 | 1.115 | 1.060 | 1.065 | 1.091 | 1.060 | 1.088 | 2.49 |
| 48) | | 2-Nitroaniline | 0.248 | 0.273 | 0.292 | 0.288 | 0.300 | 0.312 | 0.302 | 0.288 | 7.44 |
| 49) | | Acenaphthylene | 1.664 | 1.660 | 1.661 | 1.584 | 1.586 | 1.629 | 1.565 | 1.622 | 2.62 |
| 50) | | Dimethylphthalate | 1.500 | 1.479 | 1.478 | 1.389 | 1.368 | 1.403 | 1.352 | 1.424 | 4.22 |
| 51) | | 2,6-Dinitrotol... | 0.316 | 0.330 | 0.336 | 0.324 | 0.327 | 0.338 | 0.329 | 0.329 | 2.23 |
| 52) | C | Acenaphthene | 1.116 | 1.075 | 1.080 | 1.007 | 0.996 | 1.007 | 0.962 | 1.035 | 5.38 |
| 53) | | 3-Nitroaniline | 0.282 | 0.320 | 0.335 | 0.328 | 0.323 | 0.333 | 0.314 | 0.319 | 5.67 |
| 54) | P | 2,4-Dinitrophenol | | 0.139 | 0.178 | 0.194 | 0.208 | 0.220 | 0.217 | 0.193 | 15.82 |
| 55) | | Dibenzofuran | 1.799 | 1.736 | 1.724 | 1.615 | 1.591 | 1.629 | 1.568 | 1.666 | 5.20 |
| 56) | P | 4-Nitrophenol | 0.197 | 0.235 | 0.278 | 0.275 | 0.274 | 0.295 | 0.290 | 0.264 | 13.26 |
| 57) | | 2,4-Dinitrotol... | 0.426 | 0.456 | 0.480 | 0.460 | 0.463 | 0.482 | 0.466 | 0.462 | 3.99 |
| 58) | | Fluorene | 1.490 | 1.475 | 1.458 | 1.363 | 1.328 | 1.347 | 1.272 | 1.391 | 6.03 |
| 59) | | 2,3,4,6-Tetrac... | 0.379 | 0.366 | 0.377 | 0.369 | 0.370 | 0.381 | 0.372 | 0.373 | 1.53 |
| 60) | | Diethylphthalate | 1.600 | 1.579 | 1.577 | 1.457 | 1.442 | 1.460 | 1.397 | 1.502 | 5.41 |
| 61) | | 4-Chlorophenyl... | 0.757 | 0.736 | 0.733 | 0.689 | 0.680 | 0.692 | 0.657 | 0.706 | 5.12 |
| 62) | | 4-Nitroaniline | 0.285 | 0.334 | 0.359 | 0.349 | 0.355 | 0.366 | 0.359 | 0.344 | 8.07 |
| 63) | | Azobenzene | 1.283 | 1.269 | 1.289 | 1.196 | 1.183 | 1.203 | 1.153 | 1.225 | 4.44 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | 0.084 | 0.104 | 0.117 | 0.123 | 0.131 | 0.136 | 0.135 | 0.119 | 15.97 |
| 66) | c | n-Nitrosodiphe... | 0.550 | 0.534 | 0.545 | 0.519 | 0.526 | 0.533 | 0.509 | 0.531 | 2.68 |
| 67) | | 4-Bromophenyl-... | 0.226 | 0.218 | 0.221 | 0.214 | 0.221 | 0.225 | 0.219 | 0.221 | 1.85 |
| 68) | | Hexachlorobenzene | 0.301 | 0.290 | 0.295 | 0.282 | 0.287 | 0.294 | 0.283 | 0.290 | 2.33 |
| 69) | | Atrazine | 0.202 | 0.187 | 0.151 | 0.171 | 0.121 | 0.135 | 0.130 | 0.157 | 19.70 |
| 70) | C | Pentachlorophenol | 0.129 | 0.139 | 0.155 | 0.162 | 0.167 | 0.176 | 0.176 | 0.158 | 11.39 |
| 71) | | Phenanthrene | 1.067 | 1.000 | 1.016 | 0.942 | 0.936 | 0.947 | 0.901 | 0.973 | 5.87 |
| 72) | | Anthracene | 1.030 | 0.985 | 0.998 | 0.943 | 0.932 | 0.949 | 0.887 | 0.961 | 4.94 |
| 73) | | Carbazole | 1.030 | 1.003 | 1.001 | 0.940 | 0.924 | 0.947 | 0.899 | 0.963 | 5.00 |
| 74) | | Di-n-butylphth... | 1.312 | 1.269 | 1.261 | 1.170 | 1.128 | 1.121 | 1.068 | 1.190 | 7.68 |
| 75) | C | Fluoranthene | 1.442 | 1.353 | 1.316 | 1.208 | 1.157 | 1.158 | 1.096 | 1.247 | 10.04 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.324 | 0.433 | 0.250 | 0.403 | 0.656 | 0.503 | 0.440 | 0.430 | 30.17 |
| 78) | | Pyrene | 1.201 | 1.158 | 1.199 | 1.130 | 1.125 | 1.117 | 1.036 | 1.138 | 4.95 |
| 79) | S | Terphenyl-d14 | 1.065 | 1.023 | 1.028 | 0.902 | 0.819 | 0.780 | 0.707 | 0.904 | 15.44 |
| 80) | | Butylbenzylpht... | 0.541 | 0.522 | 0.531 | 0.507 | 0.500 | 0.505 | 0.474 | 0.511 | 4.31 |
| 81) | | Benzo(a)anthra... | 1.334 | 1.258 | 1.258 | 1.170 | 1.138 | 1.118 | 1.040 | 1.188 | 8.47 |
| 82) | | 3,3'-Dichlorob... | 0.466 | 0.474 | 0.480 | 0.469 | 0.478 | 0.467 | 0.439 | 0.468 | 2.92 |
| 83) | | Chrysene | 1.261 | 1.215 | 1.207 | 1.116 | 1.074 | 1.050 | 0.979 | 1.129 | 9.06 |
| 84) | | Bis(2-ethylhex... | 0.857 | 0.816 | 0.822 | 0.760 | 0.738 | 0.733 | 0.686 | 0.773 | 7.81 |
| 85) | c | Di-n-octyl pht... | 1.510 | 1.430 | 1.383 | 1.284 | 1.226 | 1.203 | 1.119 | 1.308 | 10.60 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.480 | 1.394 | 1.411 | 1.347 | 1.342 | 1.357 | 1.290 | 1.374 | 4.40 |
| 88) | | Benzo(b)fluora... | 1.220 | 1.158 | 1.107 | 1.056 | 1.053 | 1.073 | 1.014 | 1.097 | 6.46 |
| 89) | | Benzo(k)fluora... | 1.119 | 1.045 | 1.080 | 0.977 | 0.966 | 0.937 | 0.849 | 0.996 | 9.23 |
| 90) | C | Benzo(a)pyrene | 1.023 | 0.974 | 0.977 | 0.926 | 0.923 | 0.931 | 0.877 | 0.947 | 5.02 |
| 91) | | Dibenzo(a,h)an... | 1.250 | 1.169 | 1.189 | 1.128 | 1.111 | 1.119 | 1.047 | 1.145 | 5.68 |
| 92) | | Benzo(g,h,i)pe... | 1.239 | 1.164 | 1.182 | 1.133 | 1.148 | 1.162 | 1.113 | 1.163 | 3.46 |

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 05 16:47:56 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140231.D 5 =BF140232.D 10 =BF140233.D 20 =BF140234.D 40 =BF140235.D 50 =BF140236.D 60 =BF140237.D 80 =BF1402
38.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.613 | 0.582 | 0.576 | 0.550 | 0.526 | 0.527 | 0.511 | 0.555 | 6.64 |
| 3) | | Pyridine | | 1.464 | 1.445 | 1.402 | 1.340 | 1.296 | 1.298 | 1.233 | 1.354 | 6.33 |
| 4) | | n-Nitrosodimet... | | 0.799 | 0.792 | 0.802 | 0.780 | 0.767 | 0.786 | 0.746 | 0.782 | 2.52 |
| 5) | S | 2-Fluorophenol | | 1.359 | 1.298 | 1.261 | 1.159 | 1.138 | 1.151 | 1.083 | 1.207 | 8.29 |
| 6) | | Aniline | | 1.609 | 1.513 | 1.499 | 1.365 | 1.316 | 1.298 | 1.218 | 1.402 | 9.99 |
| 7) | S | Phenol-d6 | | 1.765 | 1.679 | 1.604 | 1.495 | 1.462 | 1.468 | 1.392 | 1.552 | 8.66 |
| 8) | | 2-Chlorophenol | | 1.441 | 1.385 | 1.311 | 1.214 | 1.187 | 1.182 | 1.121 | 1.263 | 9.38 |
| 9) | | Benzaldehyde | | 1.159 | 1.137 | 1.085 | 0.949 | 0.839 | 0.823 | 0.701 | 0.956 | 18.46 |
| 10) | C | Phenol | | 1.863 | 1.779 | 1.752 | 1.593 | 1.575 | 1.544 | 1.434 | 1.649 | 9.23 |
| 11) | | bis(2-Chloroet... | | 1.417 | 1.354 | 1.285 | 1.209 | 1.201 | 1.201 | 1.100 | 1.252 | 8.57 |
| 12) | | 1,3-Dichlorobe... | | 1.690 | 1.605 | 1.555 | 1.413 | 1.387 | 1.388 | 1.322 | 1.480 | 9.22 |
| 13) | C | 1,4-Dichlorobe... | | 1.720 | 1.636 | 1.551 | 1.423 | 1.393 | 1.401 | 1.322 | 1.492 | 9.78 |
| 14) | | 1,2-Dichlorobe... | | 1.622 | 1.553 | 1.494 | 1.309 | 1.291 | 1.286 | 1.201 | 1.394 | 11.49 |
| 15) | | Benzyl Alcohol | | 1.282 | 1.280 | 1.258 | 1.182 | 1.147 | 1.154 | 1.075 | 1.197 | 6.59 |
| 16) | | 2,2'-oxybis(1-... | | 2.305 | 2.213 | 2.143 | 1.958 | 1.910 | 1.898 | 1.764 | 2.027 | 9.65 |
| 17) | | 2-Methylphenol | | 1.155 | 1.105 | 1.086 | 1.028 | 1.005 | 1.022 | 0.973 | 1.053 | 6.05 |
| 18) | | Hexachloroethane | | 0.612 | 0.603 | 0.576 | 0.533 | 0.524 | 0.537 | 0.507 | 0.556 | 7.37 |
| 19) | P | n-Nitroso-di-n... | 1.035 | 1.117 | 1.062 | 1.015 | 0.949 | 0.923 | 0.936 | 0.886 | 0.990 | 8.01 |
| 20) | | 3+4-Methylphenols | | 1.503 | 1.446 | 1.403 | 1.277 | 1.240 | 1.242 | 1.150 | 1.323 | 9.73 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.564 | 0.535 | 0.512 | 0.474 | 0.461 | 0.472 | 0.453 | 0.496 | 8.43 |
| 23) | S | Nitrobenzene-d5 | | 0.435 | 0.420 | 0.415 | 0.392 | 0.387 | 0.391 | 0.377 | 0.402 | 5.21 |
| 24) | | Nitrobenzene | | 0.452 | 0.442 | 0.436 | 0.414 | 0.407 | 0.407 | 0.396 | 0.422 | 5.04 |
| 25) | | Isophorone | | 0.754 | 0.722 | 0.699 | 0.675 | 0.659 | 0.680 | 0.660 | 0.693 | 5.05 |
| 26) | C | 2-Nitrophenol | | 0.160 | 0.167 | 0.170 | 0.171 | 0.167 | 0.173 | 0.168 | 0.168 | 2.47 |
| 27) | | 2,4-Dimethylph... | | 0.240 | 0.237 | 0.234 | 0.224 | 0.221 | 0.227 | 0.216 | 0.228 | 3.88 |
| 28) | | bis(2-Chloroet... | | 0.459 | 0.441 | 0.428 | 0.400 | 0.390 | 0.399 | 0.383 | 0.415 | 6.93 |
| 29) | C | 2,4-Dichloroph... | | 0.297 | 0.299 | 0.291 | 0.278 | 0.270 | 0.277 | 0.266 | 0.283 | 4.67 |
| 30) | | 1,2,4-Trichlor... | | 0.373 | 0.362 | 0.349 | 0.328 | 0.318 | 0.327 | 0.314 | 0.339 | 6.72 |
| 31) | | Naphthalene | | 1.206 | 1.119 | 1.071 | 0.992 | 0.956 | 0.965 | 0.921 | 1.033 | 9.94 |
| 32) | | Benzoic acid | | | 0.136 | 0.161 | 0.193 | 0.207 | 0.211 | 0.216 | 0.187 | 17.07 |
| 33) | | 4-Chloroaniline | | 0.372 | 0.367 | 0.354 | 0.330 | 0.322 | 0.323 | 0.311 | 0.340 | 7.13 |
| 34) | C | Hexachlorobuta... | | 0.251 | 0.241 | 0.238 | 0.222 | 0.218 | 0.223 | 0.212 | 0.229 | 6.22 |
| 35) | | Caprolactam | | 0.090 | 0.087 | 0.088 | 0.085 | 0.084 | 0.086 | 0.082 | 0.086 | 2.94 |
| 36) | C | 4-Chloro-3-met... | | 0.337 | 0.326 | 0.319 | 0.312 | 0.303 | 0.307 | 0.298 | 0.315 | 4.33 |
| 37) | | 2-Methylnaphth... | | 0.772 | 0.743 | 0.702 | 0.644 | 0.626 | 0.627 | 0.605 | 0.674 | 9.64 |
| 38) | | 1-Methylnaphth... | | 0.765 | 0.720 | 0.691 | 0.634 | 0.612 | 0.619 | 0.583 | 0.661 | 10.00 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.657 | 0.619 | 0.600 | 0.562 | 0.559 | 0.562 | 0.538 | 0.586 | 7.15 |
| 41) | P | Hexachlorocycl... | 0.124 | 0.145 | 0.169 | 0.183 | 0.177 | 0.181 | 0.169 | 0.164 | 13.27 |
| 42) | S | 2,4,6-Tribromo... | 0.199 | 0.200 | 0.197 | 0.194 | 0.197 | 0.202 | 0.195 | 0.198 | 1.40 |
| 43) | C | 2,4,6-Trichlor... | 0.377 | 0.369 | 0.363 | 0.361 | 0.354 | 0.356 | 0.359 | 0.363 | 2.16 |
| 44) | | 2,4,5-Trichlor... | 0.391 | 0.398 | 0.396 | 0.373 | 0.374 | 0.383 | 0.355 | 0.381 | 4.02 |
| 45) | S | 2-Fluorobiphenyl | 1.481 | 1.381 | 1.312 | 1.183 | 1.148 | 1.166 | 1.097 | 1.253 | 11.27 |
| 46) | | 1,1'-Biphenyl | 1.663 | 1.590 | 1.521 | 1.376 | 1.342 | 1.347 | 1.281 | 1.446 | 10.02 |
| 47) | | 2-Chloronaphth... | 1.195 | 1.171 | 1.135 | 1.050 | 1.036 | 1.040 | 0.990 | 1.088 | 7.17 |
| 48) | | 2-Nitroaniline | 0.357 | 0.372 | 0.371 | 0.369 | 0.363 | 0.364 | 0.352 | 0.364 | 1.99 |
| 49) | | Acenaphthylene | 1.730 | 1.668 | 1.618 | 1.486 | 1.465 | 1.452 | 1.364 | 1.540 | 8.62 |
| 50) | | Dimethylphthalate | 1.363 | 1.310 | 1.262 | 1.191 | 1.182 | 1.180 | 1.135 | 1.232 | 6.65 |
| 51) | | 2,6-Dinitrotol... | 0.302 | 0.297 | 0.299 | 0.286 | 0.286 | 0.284 | 0.272 | 0.290 | 3.57 |
| 52) | C | Acenaphthene | 1.204 | 1.153 | 1.134 | 1.059 | 1.055 | 1.041 | 1.003 | 1.093 | 6.60 |
| 53) | | 3-Nitroaniline | 0.294 | 0.286 | 0.282 | 0.269 | 0.267 | 0.262 | 0.248 | 0.273 | 5.83 |
| 54) | P | 2,4-Dinitrophenol | | 0.071 | 0.101 | 0.128 | 0.135 | 0.139 | 0.142 | 0.120 | 23.23 |
| 55) | | Dibenzofuran | 1.773 | 1.683 | 1.603 | 1.467 | 1.424 | 1.421 | 1.324 | 1.528 | 10.59 |
| 56) | P | 4-Nitrophenol | 0.160 | 0.178 | 0.196 | 0.203 | 0.206 | 0.201 | 0.197 | 0.192 | 8.78 |
| 57) | | 2,4-Dinitrotol... | 0.384 | 0.385 | 0.388 | 0.374 | 0.373 | 0.374 | 0.352 | 0.376 | 3.23 |
| 58) | | Fluorene | 1.446 | 1.345 | 1.267 | 1.154 | 1.127 | 1.115 | 1.059 | 1.216 | 11.55 |
| 59) | | 2,3,4,6-Tetrac... | 0.323 | 0.324 | 0.321 | 0.305 | 0.309 | 0.308 | 0.298 | 0.313 | 3.26 |
| 60) | | Diethylphthalate | 1.360 | 1.319 | 1.271 | 1.185 | 1.170 | 1.165 | 1.097 | 1.224 | 7.72 |
| 61) | | 4-Chlorophenyl... | 0.715 | 0.673 | 0.638 | 0.581 | 0.573 | 0.569 | 0.542 | 0.613 | 10.33 |
| 62) | | 4-Nitroaniline | 0.278 | 0.276 | 0.282 | 0.270 | 0.267 | 0.270 | 0.254 | 0.271 | 3.45 |
| 63) | | Azobenzene | 1.460 | 1.373 | 1.319 | 1.219 | 1.200 | 1.190 | 1.122 | 1.269 | 9.38 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.080 | 0.100 | 0.110 | 0.112 | 0.116 | 0.113 | 0.105 | 12.60 |
| 66) | c | n-Nitrosodiphe... | 0.646 | 0.608 | 0.600 | 0.551 | 0.543 | 0.549 | 0.530 | 0.575 | 7.48 |
| 67) | | 4-Bromophenyl-... | 0.230 | 0.219 | 0.223 | 0.209 | 0.208 | 0.212 | 0.207 | 0.215 | 4.15 |
| 68) | | Hexachlorobenzene | 0.261 | 0.255 | 0.251 | 0.237 | 0.235 | 0.242 | 0.237 | 0.245 | 4.26 |
| 69) | | Atrazine | 0.204 | 0.189 | 0.155 | 0.156 | 0.127 | 0.138 | 0.133 | 0.157 | 18.48 |
| 70) | C | Pentachlorophenol | 0.105 | 0.121 | 0.133 | 0.138 | 0.139 | 0.144 | 0.142 | 0.132 | 10.59 |
| 71) | | Phenanthrene | 1.082 | 1.044 | 1.004 | 0.915 | 0.885 | 0.902 | 0.849 | 0.954 | 9.28 |
| 72) | | Anthracene | 1.071 | 1.014 | 0.984 | 0.894 | 0.881 | 0.876 | 0.832 | 0.936 | 9.34 |
| 73) | | Carbazole | 0.973 | 0.919 | 0.901 | 0.822 | 0.805 | 0.809 | 0.759 | 0.855 | 8.93 |
| 74) | | Di-n-butylphth... | 1.119 | 1.096 | 1.062 | 0.975 | 0.961 | 0.966 | 0.907 | 1.012 | 7.87 |
| 75) | C | Fluoranthene | 1.157 | 1.101 | 1.044 | 0.950 | 0.928 | 0.935 | 0.870 | 0.998 | 10.48 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.507 | 0.466 | 0.380 | 0.490 | 0.365 | 0.249 | 0.281 | 0.391 | 25.96 |
| 78) | | Pyrene | 1.851 | 1.733 | 1.728 | 1.590 | 1.572 | 1.596 | 1.490 | 1.651 | 7.49 |
| 79) | S | Terphenyl-d14 | 1.383 | 1.309 | 1.258 | 1.159 | 1.164 | 1.180 | 1.093 | 1.221 | 8.25 |
| 80) | | Butylbenzylpht... | 0.580 | 0.596 | 0.613 | 0.597 | 0.601 | 0.612 | 0.564 | 0.595 | 2.95 |
| 81) | | Benzo(a)anthra... | 1.386 | 1.344 | 1.345 | 1.232 | 1.232 | 1.254 | 1.193 | 1.284 | 5.71 |
| 82) | | 3,3'-Dichlorob... | 0.387 | 0.409 | 0.410 | 0.417 | 0.406 | 0.401 | 0.392 | 0.403 | 2.57 |
| 83) | | Chrysene | 1.320 | 1.264 | 1.206 | 1.154 | 1.177 | 1.180 | 1.113 | 1.202 | 5.81 |
| 84) | | Bis(2-ethylhex... | 0.868 | 0.858 | 0.858 | 0.819 | 0.825 | 0.830 | 0.775 | 0.833 | 3.82 |
| 85) | c | Di-n-octyl pht... | 1.201 | 1.234 | 1.283 | 1.267 | 1.265 | 1.291 | 1.240 | 1.254 | 2.52 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.107 | 1.110 | 1.213 | 1.195 | 1.172 | 1.230 | 1.191 | 1.174 | 4.11 |
| 88) | | Benzo(b)fluora... | 1.300 | 1.184 | 1.214 | 1.245 | 1.125 | 1.286 | 1.115 | 1.210 | 6.05 |
| 89) | | Benzo(k)fluora... | 1.214 | 1.230 | 1.206 | 1.027 | 1.085 | 0.975 | 1.034 | 1.110 | 9.46 |
| 90) | C | Benzo(a)pyrene | 1.023 | 0.999 | 1.022 | 0.993 | 0.975 | 1.006 | 0.964 | 0.997 | 2.23 |
| 91) | | Dibenzo(a,h)an... | 0.917 | 0.923 | 0.998 | 0.979 | 0.968 | 1.000 | 0.976 | 0.966 | 3.44 |
| 92) | | Benzo(g,h,i)pe... | 0.949 | 0.941 | 1.017 | 0.994 | 0.977 | 1.017 | 1.002 | 0.985 | 3.13 |

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF1403
39.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.582 | 0.546 | 0.530 | 0.515 | 0.495 | 0.506 | 0.480 | 0.522 | 6.53 |
| 3) | | Pyridine | | 1.430 | 1.343 | 1.323 | 1.316 | 1.189 | 1.237 | 1.147 | 1.283 | 7.61 |
| 4) | | n-Nitrosodimet... | | 0.658 | 0.632 | 0.651 | 0.659 | 0.644 | 0.671 | 0.627 | 0.649 | 2.39 |
| 5) | S | 2-Fluorophenol | | 1.329 | 1.257 | 1.223 | 1.150 | 1.090 | 1.118 | 1.032 | 1.171 | 8.84 |
| 6) | | Aniline | | 1.587 | 1.527 | 1.495 | 1.451 | 1.267 | 1.270 | 1.066 | 1.381 | 13.42 |
| 7) | S | Phenol-d6 | | 1.773 | 1.691 | 1.643 | 1.605 | 1.483 | 1.507 | 1.407 | 1.587 | 8.09 |
| 8) | | 2-Chlorophenol | | 1.397 | 1.349 | 1.332 | 1.263 | 1.176 | 1.184 | 1.106 | 1.258 | 8.49 |
| 9) | | Benzaldehyde | | 1.101 | 1.087 | 1.017 | 0.891 | 0.828 | 0.783 | | 0.951 | 14.32 |
| 10) | C | Phenol | | 1.799 | 1.793 | 1.743 | 1.724 | 1.582 | 1.597 | 1.478 | 1.674 | 7.31 |
| 11) | | bis(2-Chloroet... | | 1.359 | 1.294 | 1.306 | 1.263 | 1.227 | 1.249 | 1.179 | 1.268 | 4.60 |
| 12) | | 1,3-Dichlorobe... | | 1.585 | 1.475 | 1.454 | 1.374 | 1.291 | 1.317 | 1.221 | 1.388 | 8.98 |
| 13) | C | 1,4-Dichlorobe... | | 1.590 | 1.534 | 1.486 | 1.391 | 1.306 | 1.326 | 1.221 | 1.408 | 9.49 |
| 14) | | 1,2-Dichlorobe... | | 1.494 | 1.429 | 1.398 | 1.294 | 1.212 | 1.214 | 1.108 | 1.307 | 10.63 |
| 15) | | Benzyl Alcohol | | 1.172 | 1.193 | 1.199 | 1.211 | 1.100 | 1.108 | 1.020 | 1.143 | 6.10 |
| 16) | | 2,2'-oxybis(1-... | | 1.906 | 1.826 | 1.815 | 1.816 | 1.666 | 1.684 | 1.549 | 1.752 | 7.01 |
| 17) | | 2-Methylphenol | | 1.092 | 1.062 | 1.072 | 1.064 | 0.998 | 1.016 | 0.942 | 1.035 | 5.07 |
| 18) | | Hexachloroethane | | 0.562 | 0.543 | 0.550 | 0.514 | 0.500 | 0.506 | 0.468 | 0.520 | 6.30 |
| 19) | P | n-Nitroso-di-n... | 1.032 | 1.029 | 1.003 | 0.986 | 0.982 | 0.883 | 0.905 | 0.848 | 0.959 | 7.30 |
| 20) | | 3+4-Methylphenols | | 1.436 | 1.427 | 1.359 | 1.351 | 1.200 | 1.198 | 1.091 | 1.294 | 10.21 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | | |
| 22) | | Acetophenone | | 0.532 | 0.508 | 0.481 | 0.450 | 0.434 | 0.441 | 0.411 | 0.465 | 9.35 |
| 23) | S | Nitrobenzene-d5 | | 0.411 | 0.401 | 0.399 | 0.375 | 0.368 | 0.379 | 0.354 | 0.384 | 5.28 |
| 24) | | Nitrobenzene | | 0.423 | 0.421 | 0.406 | 0.393 | 0.390 | 0.394 | 0.371 | 0.400 | 4.61 |
| 25) | | Isophorone | | 0.736 | 0.702 | 0.692 | 0.674 | 0.654 | 0.671 | 0.634 | 0.680 | 4.87 |
| 26) | C | 2-Nitrophenol | | 0.175 | 0.179 | 0.181 | 0.179 | 0.175 | 0.181 | 0.171 | 0.177 | 1.99 |
| 27) | | 2,4-Dimethylph... | | 0.238 | 0.236 | 0.232 | 0.223 | 0.221 | 0.227 | 0.214 | 0.227 | 3.86 |
| 28) | | bis(2-Chloroet... | | 0.461 | 0.442 | 0.430 | 0.407 | 0.398 | 0.404 | 0.379 | 0.417 | 6.80 |
| 29) | C | 2,4-Dichloroph... | | 0.307 | 0.296 | 0.287 | 0.275 | 0.272 | 0.272 | 0.255 | 0.281 | 6.20 |
| 30) | | 1,2,4-Trichlor... | | 0.346 | 0.331 | 0.325 | 0.302 | 0.298 | 0.301 | 0.283 | 0.312 | 7.15 |
| 31) | | Naphthalene | | 1.160 | 1.105 | 1.064 | 0.982 | 0.950 | 0.955 | 0.886 | 1.015 | 9.60 |
| 32) | | Benzoic acid | | 0.162 | 0.178 | 0.180 | 0.212 | 0.215 | 0.226 | 0.226 | 0.200 | 13.01 |
| 33) | | 4-Chloroaniline | | 0.390 | 0.386 | 0.370 | 0.340 | 0.333 | 0.340 | 0.311 | 0.353 | 8.36 |
| 34) | C | Hexachlorobuta... | | 0.220 | 0.214 | 0.210 | 0.193 | 0.188 | 0.190 | 0.178 | 0.199 | 7.73 |
| 35) | | Caprolactam | | 0.098 | 0.093 | 0.094 | 0.092 | 0.091 | 0.095 | 0.089 | 0.093 | 3.27 |
| 36) | C | 4-Chloro-3-met... | | 0.331 | 0.327 | 0.320 | 0.309 | 0.299 | 0.304 | 0.287 | 0.311 | 5.14 |
| 37) | | 2-Methylnaphth... | | 0.751 | 0.706 | 0.683 | 0.632 | 0.610 | 0.607 | 0.565 | 0.651 | 10.01 |
| 38) | | 1-Methylnaphth... | | 0.734 | 0.696 | 0.673 | 0.625 | 0.589 | 0.592 | 0.550 | 0.637 | 10.39 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.646 | 0.585 | 0.583 | 0.531 | 0.524 | 0.517 | 0.485 | 0.553 | 9.85 |
| 41) | P | Hexachlorocycl... | | 0.111 | 0.143 | 0.139 | 0.156 | 0.159 | 0.145 | 0.142 | 12.04 |
| 42) | S | 2,4,6-Tribromo... | 0.220 | 0.211 | 0.207 | 0.193 | 0.191 | 0.189 | 0.182 | 0.199 | 6.88 |
| 43) | C | 2,4,6-Trichlor... | 0.380 | 0.374 | 0.374 | 0.360 | 0.360 | 0.352 | 0.341 | 0.363 | 3.87 |
| 44) | | 2,4,5-Trichlor... | 0.421 | 0.417 | 0.412 | 0.389 | 0.387 | 0.390 | 0.361 | 0.397 | 5.41 |
| 45) | S | 2-Fluorobiphenyl | 1.524 | 1.396 | 1.351 | 1.172 | 1.125 | 1.110 | 1.031 | 1.244 | 14.50 |
| 46) | | 1,1'-Biphenyl | 1.690 | 1.571 | 1.565 | 1.404 | 1.368 | 1.343 | 1.244 | 1.455 | 10.80 |
| 47) | | 2-Chloronaphth... | 1.279 | 1.182 | 1.149 | 1.065 | 1.064 | 1.049 | 0.971 | 1.108 | 9.20 |
| 48) | | 2-Nitroaniline | 0.378 | 0.365 | 0.384 | 0.364 | 0.365 | 0.366 | 0.351 | 0.368 | 2.91 |
| 49) | | Acenaphthylene | 1.940 | 1.802 | 1.786 | 1.636 | 1.582 | 1.552 | 1.441 | 1.677 | 10.29 |
| 50) | | Dimethylphthalate | 1.464 | 1.358 | 1.371 | 1.261 | 1.246 | 1.244 | 1.181 | 1.304 | 7.47 |
| 51) | | 2,6-Dinitrotol... | 0.317 | 0.303 | 0.313 | 0.297 | 0.291 | 0.289 | 0.268 | 0.297 | 5.57 |
| 52) | C | Acenaphthene | 1.259 | 1.204 | 1.192 | 1.096 | 1.091 | 1.079 | 1.006 | 1.133 | 7.78 |
| 53) | | 3-Nitroaniline | 0.333 | 0.327 | 0.335 | 0.310 | 0.307 | 0.298 | 0.275 | 0.312 | 6.92 |
| 54) | P | 2,4-Dinitrophenol | | 0.109 | 0.148 | 0.147 | 0.178 | 0.170 | 0.168 | 0.153 | 16.27 |
| 55) | | Dibenzofuran | 1.904 | 1.736 | 1.715 | 1.558 | 1.502 | 1.466 | 1.344 | 1.603 | 11.92 |
| 56) | P | 4-Nitrophenol | 0.199 | 0.217 | 0.239 | 0.236 | 0.240 | 0.237 | 0.225 | 0.228 | 6.67 |
| 57) | | 2,4-Dinitrotol... | 0.414 | 0.400 | 0.417 | 0.387 | 0.387 | 0.382 | 0.351 | 0.391 | 5.77 |
| 58) | | Fluorene | 1.525 | 1.403 | 1.365 | 1.202 | 1.168 | 1.137 | 1.066 | 1.267 | 13.14 |
| 59) | | 2,3,4,6-Tetrac... | 0.322 | 0.328 | 0.326 | 0.318 | 0.308 | 0.302 | 0.288 | 0.313 | 4.61 |
| 60) | | Diethylphthalate | 1.525 | 1.417 | 1.398 | 1.287 | 1.272 | 1.246 | 1.185 | 1.333 | 8.85 |
| 61) | | 4-Chlorophenyl... | 0.739 | 0.688 | 0.669 | 0.604 | 0.583 | 0.567 | 0.528 | 0.625 | 12.01 |
| 62) | | 4-Nitroaniline | 0.335 | 0.325 | 0.328 | 0.319 | 0.316 | 0.313 | 0.297 | 0.319 | 3.86 |
| 63) | | Azobenzene | 1.498 | 1.391 | 1.380 | 1.293 | 1.251 | 1.244 | 1.163 | 1.317 | 8.55 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | 0.080 | 0.098 | 0.113 | 0.109 | 0.117 | 0.120 | 0.116 | 0.108 | 13.00 |
| 66) | c | n-Nitrosodiphe... | 0.651 | 0.630 | 0.600 | 0.559 | 0.541 | 0.541 | 0.522 | 0.578 | 8.57 |
| 67) | | 4-Bromophenyl-... | 0.227 | 0.210 | 0.209 | 0.194 | 0.191 | 0.188 | 0.180 | 0.200 | 8.14 |
| 68) | | Hexachlorobenzene | 0.251 | 0.242 | 0.232 | 0.218 | 0.209 | 0.215 | 0.208 | 0.225 | 7.54 |
| 69) | | Atrazine | 0.191 | 0.183 | 0.135 | 0.145 | 0.155 | 0.205 | 0.209 | 0.175 | 17.03 |
| 70) | C | Pentachlorophenol | 0.097 | 0.108 | 0.124 | 0.127 | 0.131 | 0.130 | 0.130 | 0.121 | 10.87 |
| 71) | | Phenanthrene | 1.096 | 1.053 | 0.986 | 0.903 | 0.868 | 0.851 | 0.820 | 0.940 | 11.33 |
| 72) | | Anthracene | 1.071 | 1.018 | 0.966 | 0.889 | 0.860 | 0.839 | 0.803 | 0.921 | 10.81 |
| 73) | | Carbazole | 1.053 | 1.009 | 0.963 | 0.876 | 0.846 | 0.834 | 0.783 | 0.909 | 11.02 |
| 74) | | Di-n-butylphth... | 1.214 | 1.177 | 1.150 | 1.074 | 1.036 | 1.023 | 0.964 | 1.091 | 8.37 |
| 75) | C | Fluoranthene | 1.256 | 1.201 | 1.141 | 1.018 | 0.962 | 0.933 | 0.867 | 1.054 | 13.92 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | | 0.634 | 0.684 | 0.653 | 0.742 | 0.953 | 0.939 | 0.768 | 18.64 |
| 78) | | Pyrene | 1.748 | 1.706 | 1.643 | 1.679 | 1.728 | 1.800 | 1.672 | 1.711 | 3.08 |
| 79) | S | Terphenyl-d14 | 1.226 | 1.185 | 1.108 | 1.123 | 1.139 | 1.190 | 1.093 | 1.152 | 4.26 |
| 80) | | Butylbenzylpht... | 0.640 | 0.638 | 0.654 | 0.690 | 0.670 | 0.681 | 0.628 | 0.657 | 3.56 |
| 81) | | Benzo(a)anthra... | 1.451 | 1.418 | 1.351 | 1.263 | 1.229 | 1.294 | 1.195 | 1.314 | 7.31 |
| 82) | | 3,3'-Dichlorob... | 0.438 | 0.431 | 0.433 | 0.402 | 0.406 | 0.416 | 0.399 | 0.418 | 3.79 |
| 83) | | Chrysene | 1.394 | 1.241 | 1.235 | 1.168 | 1.137 | 1.123 | 1.099 | 1.199 | 8.44 |
| 84) | | Bis(2-ethylhex... | 0.886 | 0.890 | 0.897 | 0.927 | 0.858 | 0.869 | 0.813 | 0.877 | 4.07 |
| 85) | c | Di-n-octyl pht... | 1.231 | 1.217 | 1.270 | 1.290 | 1.187 | 1.241 | 1.212 | 1.235 | 2.86 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.116 | 1.150 | 1.138 | 1.258 | 1.316 | 1.354 | 1.317 | 1.235 | 8.02 |
| 88) | | Benzo(b)fluora... | 1.405 | 1.352 | 1.471 | 1.263 | 1.235 | 1.233 | 1.199 | 1.308 | 7.82 |
| 89) | | Benzo(k)fluora... | 1.286 | 1.241 | 1.120 | 1.060 | 0.952 | 0.935 | 0.888 | 1.069 | 14.47 |
| 90) | C | Benzo(a)pyrene | 1.100 | 1.053 | 1.054 | 1.005 | 0.970 | 0.980 | 0.948 | 1.016 | 5.40 |
| 91) | | Dibenzo(a,h)an... | 0.941 | 0.952 | 0.944 | 1.039 | 1.074 | 1.121 | 1.077 | 1.021 | 7.30 |
| 92) | | Benzo(g,h,i)pe... | 0.941 | 0.963 | 0.954 | 1.063 | 1.122 | 1.146 | 1.120 | 1.044 | 8.55 |

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_E Calibration Date/Time: 11/08/2024 10:07

Lab File ID: BE101544.D Init. Calib. Date(s): 11/06/2024 11/06/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:51 18:02

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.131 | 1.156 | | 2.2 | |
| Benzaldehyde | 0.759 | 0.657 | | -13.4 | |
| Phenol-d6 | 1.551 | 1.606 | | 3.5 | |
| Phenol | 1.688 | 1.758 | | 4.1 | 20.0 |
| bis(2-Chloroethyl)ether | 1.397 | 1.613 | | 15.5 | |
| 2-Chlorophenol | 1.340 | 1.363 | | 1.7 | |
| 2-Methylphenol | 1.093 | 1.113 | | 1.8 | |
| 2,2-oxybis(1-Chloropropane) | 1.654 | 1.702 | | 2.9 | |
| Acetophenone | 0.453 | 0.453 | | 0.0 | |
| 3+4-Methylphenols | 1.515 | 1.581 | | 4.4 | |
| n-Nitroso-di-n-propylamine | 1.023 | 1.081 | 0.050 | 5.7 | |
| Nitrobenzene-d5 | 0.317 | 0.329 | | 3.8 | |
| Hexachloroethane | 0.500 | 0.497 | | -0.6 | |
| Nitrobenzene | 0.329 | 0.344 | | 4.6 | |
| Isophorone | 0.616 | 0.644 | | 4.5 | |
| 2-Nitrophenol | 0.175 | 0.181 | | 3.4 | 20.0 |
| 2,4-Dimethylphenol | 0.203 | 0.203 | | 0.0 | |
| bis(2-Chloroethoxy)methane | 0.377 | 0.379 | | 0.5 | |
| 2,4-Dichlorophenol | 0.288 | 0.295 | | 2.4 | 20.0 |
| Naphthalene | 1.010 | 1.009 | | -0.1 | |
| 4-Chloroaniline | 0.355 | 0.376 | | 5.9 | |
| Hexachlorobutadiene | 0.198 | 0.190 | | -4.0 | 20.0 |
| Caprolactam | 0.106 | 0.121 | | 14.2 | |
| 4-Chloro-3-methylphenol | 0.314 | 0.342 | | 8.9 | 20.0 |
| 2-Methylnaphthalene | 0.717 | 0.735 | | 2.5 | |
| Hexachlorocyclopentadiene | 0.154 | 0.152 | 0.050 | -1.3 | |
| 2,4,6-Trichlorophenol | 0.362 | 0.358 | | -1.1 | 20.0 |
| 2-Fluorobiphenyl | 1.225 | 1.192 | | -2.7 | |
| 2,4,5-Trichlorophenol | 0.403 | 0.404 | | 0.2 | |
| 1,1-Biphenyl | 1.380 | 1.327 | | -3.8 | |
| 2-Chloronaphthalene | 1.088 | 1.047 | | -3.8 | |
| 2-Nitroaniline | 0.288 | 0.319 | | 10.8 | |
| Dimethylphthalate | 1.424 | 1.446 | | 1.5 | |
| Acenaphthylene | 1.622 | 1.637 | | 0.9 | |
| 2,6-Dinitrotoluene | 0.329 | 0.343 | | 4.3 | |
| 3-Nitroaniline | 0.319 | 0.354 | | 11.0 | |
| Acenaphthene | 1.035 | 1.044 | | 0.9 | 20.0 |
| 2,4-Dinitrophenol | 0.193 | 0.221 | 0.050 | 14.5 | |
| 4-Nitrophenol | 0.264 | 0.296 | 0.050 | 12.1 | |

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_E Calibration Date/Time: 11/08/2024 10:07

Lab File ID: BE101544.D Init. Calib. Date(s): 11/06/2024 11/06/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:51 18:02

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.666 | 1.672 | | 0.4 | |
| 2,4-Dinitrotoluene | 0.462 | 0.497 | | 7.6 | |
| Diethylphthalate | 1.502 | 1.558 | | 3.7 | |
| 4-Chlorophenyl-phenylether | 0.706 | 0.710 | | 0.6 | |
| Fluorene | 1.391 | 1.437 | | 3.3 | |
| 4-Nitroaniline | 0.344 | 0.392 | | 14.0 | |
| 4,6-Dinitro-2-methylphenol | 0.119 | 0.132 | | 10.9 | |
| n-Nitrosodiphenylamine | 0.531 | 0.536 | | 0.9 | 20.0 |
| 2,4,6-Tribromophenol | 0.376 | 0.380 | | 1.1 | |
| 4-Bromophenyl-phenylether | 0.221 | 0.214 | | -3.2 | |
| Hexachlorobenzene | 0.290 | 0.292 | | 0.7 | |
| Atrazine | 0.157 | 0.168 | | 7.0 | |
| Pentachlorophenol | 0.158 | 0.168 | | 6.3 | 20.0 |
| Phenanthrene | 0.973 | 0.978 | | 0.5 | |
| Anthracene | 0.961 | 0.978 | | 1.8 | |
| Carbazole | 0.963 | 0.979 | | 1.7 | |
| Di-n-butylphthalate | 1.190 | 1.202 | | 1.0 | |
| Fluoranthene | 1.247 | 1.249 | | 0.2 | 20.0 |
| Pyrene | 1.138 | 1.173 | | 3.1 | |
| Terphenyl-d14 | 0.904 | 0.945 | | 4.5 | |
| Butylbenzylphthalate | 0.511 | 0.521 | | 2.0 | |
| 3,3-Dichlorobenzidine | 0.468 | 0.476 | | 1.7 | |
| Benzo(a)anthracene | 1.188 | 1.217 | | 2.4 | |
| Chrysene | 1.129 | 1.139 | | 0.9 | |
| Bis(2-ethylhexyl)phthalate | 0.773 | 0.763 | | -1.3 | |
| Di-n-octyl phthalate | 1.308 | 1.299 | | -0.7 | 20.0 |
| Benzo(b)fluoranthene | 1.097 | 1.076 | | -1.9 | |
| Benzo(k)fluoranthene | 0.996 | 1.042 | | 4.6 | |
| Benzo(a)pyrene | 0.947 | 0.958 | | 1.2 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.374 | 1.383 | | 0.7 | |
| Dibenzo(a,h)anthracene | 1.145 | 1.159 | | 1.2 | |
| Benzo(g,h,i)perylene | 1.163 | 1.145 | | -1.5 | |
| 1,2,4,5-Tetrachlorobenzene | 0.527 | 0.489 | | -7.2 | |
| 1,4-Dioxane | 0.421 | 0.429 | | 1.9 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.373 | 0.380 | | 1.9 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/07/2024 08:59

Lab File ID: BF140261.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.207 | 1.165 | | -3.5 | |
| Benzaldehyde | 0.956 | 0.810 | | -15.3 | |
| Phenol-d6 | 1.552 | 1.463 | | -5.7 | |
| Phenol | 1.649 | 1.561 | | -5.3 | 20.0 |
| bis(2-Chloroethyl)ether | 1.252 | 1.210 | | -3.4 | |
| 2-Chlorophenol | 1.263 | 1.231 | | -2.5 | |
| 2-Methylphenol | 1.053 | 1.018 | | -3.3 | |
| 2,2-oxybis(1-Chloropropane) | 2.027 | 1.887 | | -6.9 | |
| Acetophenone | 0.496 | 0.470 | | -5.2 | |
| 3+4-Methylphenols | 1.323 | 1.261 | | -4.7 | |
| n-Nitroso-di-n-propylamine | 0.990 | 0.931 | 0.050 | -6.0 | |
| Nitrobenzene-d5 | 0.402 | 0.382 | | -5.0 | |
| Hexachloroethane | 0.556 | 0.541 | | -2.7 | |
| Nitrobenzene | 0.422 | 0.399 | | -5.4 | |
| Isophorone | 0.693 | 0.666 | | -3.9 | |
| 2-Nitrophenol | 0.168 | 0.177 | | 5.4 | 20.0 |
| 2,4-Dimethylphenol | 0.228 | 0.227 | | -0.4 | |
| bis(2-Chloroethoxy)methane | 0.415 | 0.403 | | -2.9 | |
| 2,4-Dichlorophenol | 0.283 | 0.288 | | 1.8 | 20.0 |
| Naphthalene | 1.033 | 0.994 | | -3.8 | |
| 4-Chloroaniline | 0.340 | 0.337 | | -0.9 | |
| Hexachlorobutadiene | 0.229 | 0.225 | | -1.7 | 20.0 |
| Caprolactam | 0.086 | 0.089 | | 3.5 | |
| 4-Chloro-3-methylphenol | 0.315 | 0.313 | | -0.6 | 20.0 |
| 2-Methylnaphthalene | 0.674 | 0.656 | | -2.7 | |
| Hexachlorocyclopentadiene | 0.164 | 0.179 | 0.050 | 9.1 | |
| 2,4,6-Trichlorophenol | 0.363 | 0.369 | | 1.7 | 20.0 |
| 2-Fluorobiphenyl | 1.253 | 1.179 | | -5.8 | |
| 2,4,5-Trichlorophenol | 0.381 | 0.390 | | 2.4 | |
| 1,1-Biphenyl | 1.446 | 1.384 | | -4.3 | |
| 2-Chloronaphthalene | 1.088 | 1.060 | | -2.6 | |
| 2-Nitroaniline | 0.364 | 0.353 | | -3.0 | |
| Dimethylphthalate | 1.232 | 1.219 | | -1.1 | |
| Acenaphthylene | 1.540 | 1.494 | | -3.0 | |
| 2,6-Dinitrotoluene | 0.290 | 0.293 | | 1.0 | |
| 3-Nitroaniline | 0.273 | 0.272 | | -0.4 | |
| Acenaphthene | 1.093 | 1.068 | | -2.3 | 20.0 |
| 2,4-Dinitrophenol | 0.120 | 0.130 | 0.050 | 8.3 | |
| 4-Nitrophenol | 0.192 | 0.199 | 0.050 | 3.6 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/07/2024 08:59

Lab File ID: BF140261.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.528 | 1.498 | | -2.0 | |
| 2,4-Dinitrotoluene | 0.376 | 0.389 | | 3.5 | |
| Diethylphthalate | 1.224 | 1.230 | | 0.5 | |
| 4-Chlorophenyl-phenylether | 0.613 | 0.600 | | -2.1 | |
| Fluorene | 1.216 | 1.168 | | -3.9 | |
| 4-Nitroaniline | 0.271 | 0.275 | | 1.5 | |
| 4,6-Dinitro-2-methylphenol | 0.105 | 0.111 | | 5.7 | |
| n-Nitrosodiphenylamine | 0.575 | 0.555 | | -3.5 | 20.0 |
| 2,4,6-Tribromophenol | 0.198 | 0.209 | | 5.6 | |
| 4-Bromophenyl-phenylether | 0.215 | 0.217 | | 0.9 | |
| Hexachlorobenzene | 0.245 | 0.246 | | 0.4 | |
| Atrazine | 0.157 | 0.164 | | 4.5 | |
| Pentachlorophenol | 0.132 | 0.145 | | 9.8 | 20.0 |
| Phenanthrene | 0.954 | 0.929 | | -2.6 | |
| Anthracene | 0.936 | 0.894 | | -4.5 | |
| Carbazole | 0.855 | 0.830 | | -2.9 | |
| Di-n-butylphthalate | 1.012 | 1.017 | | 0.5 | |
| Fluoranthene | 0.998 | 0.976 | | -2.2 | 20.0 |
| Pyrene | 1.651 | 1.654 | | 0.2 | |
| Terphenyl-d14 | 1.221 | 1.218 | | -0.2 | |
| Butylbenzylphthalate | 0.595 | 0.651 | | 9.4 | |
| 3,3-Dichlorobenzidine | 0.403 | 0.401 | | -0.5 | |
| Benzo(a)anthracene | 1.284 | 1.263 | | -1.6 | |
| Chrysene | 1.202 | 1.168 | | -2.8 | |
| Bis(2-ethylhexyl)phthalate | 0.833 | 0.864 | | 3.7 | |
| Di-n-octyl phthalate | 1.254 | 1.310 | | 4.5 | 20.0 |
| Benzo(b)fluoranthene | 1.210 | 1.159 | | -4.2 | |
| Benzo(k)fluoranthene | 1.110 | 1.122 | | 1.1 | |
| Benzo(a)pyrene | 0.997 | 0.992 | | -0.5 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.174 | 1.165 | | -0.8 | |
| Dibenzo(a,h)anthracene | 0.966 | 0.952 | | -1.4 | |
| Benzo(g,h,i)perylene | 0.985 | 0.966 | | -1.9 | |
| 1,2,4,5-Tetrachlorobenzene | 0.586 | 0.573 | | -2.2 | |
| 1,4-Dioxane | 0.555 | 0.516 | | -7.0 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.313 | 0.327 | | 4.5 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/08/2024 09:35

Lab File ID: BF140286.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.207 | 1.151 | | -4.6 | |
| Benzaldehyde | 0.956 | 0.854 | | -10.7 | |
| Phenol-d6 | 1.552 | 1.455 | | -6.3 | |
| Phenol | 1.649 | 1.581 | | -4.1 | 20.0 |
| bis(2-Chloroethyl)ether | 1.252 | 1.205 | | -3.8 | |
| 2-Chlorophenol | 1.263 | 1.225 | | -3.0 | |
| 2-Methylphenol | 1.053 | 1.025 | | -2.7 | |
| 2,2-oxybis(1-Chloropropane) | 2.027 | 1.804 | | -11.0 | |
| Acetophenone | 0.496 | 0.461 | | -7.1 | |
| 3+4-Methylphenols | 1.323 | 1.267 | | -4.2 | |
| n-Nitroso-di-n-propylamine | 0.990 | 0.931 | 0.050 | -6.0 | |
| Nitrobenzene-d5 | 0.402 | 0.378 | | -6.0 | |
| Hexachloroethane | 0.556 | 0.530 | | -4.7 | |
| Nitrobenzene | 0.422 | 0.398 | | -5.7 | |
| Isophorone | 0.693 | 0.668 | | -3.6 | |
| 2-Nitrophenol | 0.168 | 0.176 | | 4.8 | 20.0 |
| 2,4-Dimethylphenol | 0.228 | 0.230 | | 0.9 | |
| bis(2-Chloroethoxy)methane | 0.415 | 0.405 | | -2.4 | |
| 2,4-Dichlorophenol | 0.283 | 0.285 | | 0.7 | 20.0 |
| Naphthalene | 1.033 | 0.978 | | -5.3 | |
| 4-Chloroaniline | 0.340 | 0.343 | | 0.9 | |
| Hexachlorobutadiene | 0.229 | 0.225 | | -1.7 | 20.0 |
| Caprolactam | 0.086 | 0.095 | | 10.5 | |
| 4-Chloro-3-methylphenol | 0.315 | 0.322 | | 2.2 | 20.0 |
| 2-Methylnaphthalene | 0.674 | 0.666 | | -1.2 | |
| Hexachlorocyclopentadiene | 0.164 | 0.175 | 0.050 | 6.7 | |
| 2,4,6-Trichlorophenol | 0.363 | 0.362 | | -0.3 | 20.0 |
| 2-Fluorobiphenyl | 1.253 | 1.125 | | -10.1 | |
| 2,4,5-Trichlorophenol | 0.381 | 0.388 | | 1.8 | |
| 1,1-Biphenyl | 1.446 | 1.339 | | -7.4 | |
| 2-Chloronaphthalene | 1.088 | 1.015 | | -6.7 | |
| 2-Nitroaniline | 0.364 | 0.344 | | -5.5 | |
| Dimethylphthalate | 1.232 | 1.215 | | -1.4 | |
| Acenaphthylene | 1.540 | 1.478 | | -4.0 | |
| 2,6-Dinitrotoluene | 0.290 | 0.297 | | 2.4 | |
| 3-Nitroaniline | 0.273 | 0.281 | | 2.9 | |
| Acenaphthene | 1.093 | 1.061 | | -2.9 | 20.0 |
| 2,4-Dinitrophenol | 0.120 | 0.153 | 0.050 | 27.5 | |
| 4-Nitrophenol | 0.192 | 0.219 | 0.050 | 14.1 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/08/2024 09:35

Lab File ID: BF140286.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.528 | 1.462 | | -4.3 | |
| 2,4-Dinitrotoluene | 0.376 | 0.395 | | 5.1 | |
| Diethylphthalate | 1.224 | 1.226 | | 0.2 | |
| 4-Chlorophenyl-phenylether | 0.613 | 0.600 | | -2.1 | |
| Fluorene | 1.216 | 1.159 | | -4.7 | |
| 4-Nitroaniline | 0.271 | 0.289 | | 6.6 | |
| 4,6-Dinitro-2-methylphenol | 0.105 | 0.122 | | 16.2 | |
| n-Nitrosodiphenylamine | 0.575 | 0.536 | | -6.8 | 20.0 |
| 2,4,6-Tribromophenol | 0.198 | 0.223 | | 12.6 | |
| 4-Bromophenyl-phenylether | 0.215 | 0.216 | | 0.5 | |
| Hexachlorobenzene | 0.245 | 0.245 | | 0.0 | |
| Atrazine | 0.157 | 0.167 | | 6.4 | |
| Pentachlorophenol | 0.132 | 0.154 | | 16.7 | 20.0 |
| Phenanthrene | 0.954 | 0.897 | | -6.0 | |
| Anthracene | 0.936 | 0.882 | | -5.8 | |
| Carbazole | 0.855 | 0.825 | | -3.5 | |
| Di-n-butylphthalate | 1.012 | 1.018 | | 0.6 | |
| Fluoranthene | 0.998 | 0.986 | | -1.2 | 20.0 |
| Pyrene | 1.651 | 1.589 | | -3.8 | |
| Terphenyl-d14 | 1.221 | 1.161 | | -4.9 | |
| Butylbenzylphthalate | 0.595 | 0.628 | | 5.5 | |
| 3,3-Dichlorobenzidine | 0.403 | 0.404 | | 0.2 | |
| Benzo(a)anthracene | 1.284 | 1.258 | | -2.0 | |
| Chrysene | 1.202 | 1.131 | | -5.9 | |
| Bis(2-ethylhexyl)phthalate | 0.833 | 0.852 | | 2.3 | |
| Di-n-octyl phthalate | 1.254 | 1.261 | | 0.6 | 20.0 |
| Benzo(b)fluoranthene | 1.210 | 1.184 | | -2.1 | |
| Benzo(k)fluoranthene | 1.110 | 1.151 | | 3.7 | |
| Benzo(a)pyrene | 0.997 | 0.994 | | -0.3 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.174 | 1.140 | | -2.9 | |
| Dibenzo(a,h)anthracene | 0.966 | 0.930 | | -3.7 | |
| Benzo(g,h,i)perylene | 0.985 | 0.945 | | -4.1 | |
| 1,2,4,5-Tetrachlorobenzene | 0.586 | 0.547 | | -6.7 | |
| 1,4-Dioxane | 0.555 | 0.510 | | -8.1 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.313 | 0.333 | | 6.4 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 17:02

Lab File ID: BF140366.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.171 | 1.188 | | 1.5 | |
| Benzaldehyde | 0.951 | 0.861 | | -9.5 | |
| Phenol-d6 | 1.587 | 1.578 | | -0.6 | |
| Phenol | 1.674 | 1.678 | | 0.2 | 20.0 |
| bis(2-Chloroethyl)ether | 1.268 | 1.243 | | -2.0 | |
| 2-Chlorophenol | 1.258 | 1.256 | | -0.2 | |
| 2-Methylphenol | 1.035 | 1.033 | | -0.2 | |
| 2,2-oxybis(1-Chloropropane) | 1.752 | 1.678 | | -4.2 | |
| Acetophenone | 0.465 | 0.463 | | -0.4 | |
| 3+4-Methylphenols | 1.295 | 1.288 | | -0.5 | |
| n-Nitroso-di-n-propylamine | 0.959 | 0.909 | 0.050 | -5.2 | |
| Nitrobenzene-d5 | 0.384 | 0.381 | | -0.8 | |
| Hexachloroethane | 0.520 | 0.504 | | -3.1 | |
| Nitrobenzene | 0.400 | 0.401 | | 0.3 | |
| Isophorone | 0.680 | 0.661 | | -2.8 | |
| 2-Nitrophenol | 0.177 | 0.178 | | 0.6 | 20.0 |
| 2,4-Dimethylphenol | 0.227 | 0.227 | | 0.0 | |
| bis(2-Chloroethoxy)methane | 0.417 | 0.404 | | -3.1 | |
| 2,4-Dichlorophenol | 0.281 | 0.281 | | 0.0 | 20.0 |
| Naphthalene | 1.015 | 1.009 | | -0.6 | |
| 4-Chloroaniline | 0.353 | 0.327 | | -7.4 | |
| Hexachlorobutadiene | 0.199 | 0.195 | | -2.0 | 20.0 |
| Caprolactam | 0.093 | 0.094 | | 1.1 | |
| 4-Chloro-3-methylphenol | 0.311 | 0.311 | | 0.0 | 20.0 |
| 2-Methylnaphthalene | 0.651 | 0.642 | | -1.4 | |
| Hexachlorocyclopentadiene | 0.142 | 0.133 | 0.050 | -6.3 | |
| 2,4,6-Trichlorophenol | 0.363 | 0.368 | | 1.4 | 20.0 |
| 2-Fluorobiphenyl | 1.244 | 1.231 | | -1.0 | |
| 2,4,5-Trichlorophenol | 0.397 | 0.409 | | 3.0 | |
| 1,1-Biphenyl | 1.455 | 1.467 | | 0.8 | |
| 2-Chloronaphthalene | 1.108 | 1.111 | | 0.3 | |
| 2-Nitroaniline | 0.368 | 0.374 | | 1.6 | |
| Dimethylphthalate | 1.304 | 1.272 | | -2.5 | |
| Acenaphthylene | 1.677 | 1.672 | | -0.3 | |
| 2,6-Dinitrotoluene | 0.297 | 0.303 | | 2.0 | |
| 3-Nitroaniline | 0.312 | 0.313 | | 0.3 | |
| Acenaphthene | 1.133 | 1.135 | | 0.2 | 20.0 |
| 2,4-Dinitrophenol | 0.153 | 0.154 | 0.050 | 0.7 | |
| 4-Nitrophenol | 0.228 | 0.236 | 0.050 | 3.5 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 17:02

Lab File ID: BF140366.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.603 | 1.616 | | 0.8 | |
| 2,4-Dinitrotoluene | 0.391 | 0.397 | | 1.5 | |
| Diethylphthalate | 1.333 | 1.281 | | -3.9 | |
| 4-Chlorophenyl-phenylether | 0.625 | 0.604 | | -3.4 | |
| Fluorene | 1.267 | 1.256 | | -0.9 | |
| 4-Nitroaniline | 0.319 | 0.328 | | 2.8 | |
| 4,6-Dinitro-2-methylphenol | 0.108 | 0.114 | | 5.6 | |
| n-Nitrosodiphenylamine | 0.578 | 0.569 | | -1.6 | 20.0 |
| 2,4,6-Tribromophenol | 0.199 | 0.200 | | 0.5 | |
| 4-Bromophenyl-phenylether | 0.200 | 0.193 | | -3.5 | |
| Hexachlorobenzene | 0.225 | 0.223 | | -0.9 | |
| Atrazine | 0.175 | 0.164 | | -6.3 | |
| Pentachlorophenol | 0.121 | 0.124 | | 2.5 | 20.0 |
| Phenanthrene | 0.940 | 0.926 | | -1.5 | |
| Anthracene | 0.921 | 0.905 | | -1.7 | |
| Carbazole | 0.909 | 0.912 | | 0.3 | |
| Di-n-butylphthalate | 1.091 | 1.021 | | -6.4 | |
| Fluoranthene | 1.054 | 1.029 | | -2.4 | 20.0 |
| Pyrene | 1.711 | 1.783 | | 4.2 | |
| Terphenyl-d14 | 1.152 | 1.148 | | -0.3 | |
| Butylbenzylphthalate | 0.657 | 0.642 | | -2.3 | |
| 3,3-Dichlorobenzidine | 0.418 | 0.409 | | -2.2 | |
| Benzo(a)anthracene | 1.314 | 1.308 | | -0.5 | |
| Chrysene | 1.199 | 1.156 | | -3.6 | |
| Bis(2-ethylhexyl)phthalate | 0.877 | 0.791 | | -9.8 | |
| Di-n-octyl phthalate | 1.235 | 1.083 | | -12.3 | 20.0 |
| Benzo(b)fluoranthene | 1.308 | 1.240 | | -5.2 | |
| Benzo(k)fluoranthene | 1.069 | 1.043 | | -2.4 | |
| Benzo(a)pyrene | 1.016 | 1.000 | | -1.6 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.235 | 1.295 | | 4.9 | |
| Dibenzo(a,h)anthracene | 1.021 | 1.058 | | 3.6 | |
| Benzo(g,h,i)perylene | 1.044 | 1.108 | | 6.1 | |
| 1,2,4,5-Tetrachlorobenzene | 0.553 | 0.555 | | 0.4 | |
| 1,4-Dioxane | 0.522 | 0.547 | | 4.8 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.313 | 0.320 | | 2.2 | |

All other compounds must meet a minimum RRF of 0.010.

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-04** | **WC-1(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP BNA | 8270E | | 11/07/24 | 11/08/24 | |
| **P4722-09** | **WC-2(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP BNA | 8270E | | 11/07/24 | 11/08/24 | |
| **P4722-14** | **WC-3(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP BNA | 8270E | | 11/07/24 | 11/08/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

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

# SAMPLE DATA

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-04 | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101562.D | 1 | 11/07/24 11:30 | 11/08/24 21:06 | PB164765 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 15.5 | U | 15.5 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 8.40 | U | 8.40 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 11.3 | U | 11.3 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 11.5 | U | 11.5 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 10.1 | U | 10.1 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 12.7 | U | 12.7 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 12.7 | U | 12.7 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 8.90 | U | 8.90 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 10.1 | U | 10.1 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 15.2 | U | 15.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 11.4 | U | 11.4 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 18.5 | U | 18.5 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 132 | | 10 - 139 | 88% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 107 | | 10 - 134 | 71% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 96.3 | | 49 - 133 | 96% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 94.4 | | 52 - 132 | 94% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 155 | | 44 - 137 | 103% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 111 | | 48 - 125 | 111% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 43600 | 7.559 | | | |
| 1146-65-2 | Naphthalene-d8 | 181000 | 10.326 | | | |
| 15067-26-2 | Acenaphthene-d10 | 121000 | 14.163 | | | |
| 1517-22-2 | Phenanthrene-d10 | 294000 | 16.901 | | | |
| 1719-03-5 | Chrysene-d12 | 363000 | 21.067 | | | |
| 1520-96-3 | Perylene-d12 | 463000 | 23.346 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-04 | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101562.D | 1 | 11/07/24 11:30 | 11/08/24 21:06 | PB164765 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-09 | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101561.D | 1 | 11/07/24 11:30 | 11/08/24 20:30 | PB164765 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 15.5 | U | 15.5 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 8.40 | U | 8.40 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 11.3 | U | 11.3 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 11.5 | U | 11.5 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 10.1 | U | 10.1 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 12.7 | U | 12.7 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 12.7 | U | 12.7 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 8.90 | U | 8.90 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 10.1 | U | 10.1 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 15.2 | U | 15.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 11.4 | U | 11.4 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 18.5 | U | 18.5 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 155 | | 10 - 139 | 103% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 129 | | 10 - 134 | 86% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 106 | | 49 - 133 | 106% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 103 | | 52 - 132 | 103% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 162 | | 44 - 137 | 108% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 121 | | 48 - 125 | 121% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 40500 | 7.559 | | | |
| 1146-65-2 | Naphthalene-d8 | 171000 | 10.326 | | | |
| 15067-26-2 | Acenaphthene-d10 | 113000 | 14.168 | | | |
| 1517-22-2 | Phenanthrene-d10 | 271000 | 16.906 | | | |
| 1719-03-5 | Chrysene-d12 | 325000 | 21.066 | | | |
| 1520-96-3 | Perylene-d12 | 419000 | 23.352 | | | |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | | | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | | | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | | | SDG No.: | P4722 |
| Lab Sample ID: | P4722-09 | | | Matrix: | TCLP |
| Analytical Method: | SW8270 | | | % Solid: | 0 |
| Sample Wt/Vol: | 100 | Units: | mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | TCLP BNA |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101561.D | 1 | 11/07/24 11:30 | 11/08/24 20:30 | PB164765 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-14 | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101560.D | 1 | 11/07/24 11:30 | 11/08/24 19:54 | PB164765 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 15.5 | U | 15.5 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 8.40 | U | 8.40 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 11.3 | U | 11.3 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 11.5 | U | 11.5 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 10.1 | U | 10.1 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 12.7 | U | 12.7 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 12.7 | U | 12.7 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 8.90 | U | 8.90 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 10.1 | U | 10.1 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 15.2 | U | 15.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 11.4 | U | 11.4 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 18.5 | U | 18.5 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 140 | | 10 - 139 | 94% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 123 | | 10 - 134 | 82% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 98.7 | | 49 - 133 | 99% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 97.4 | | 52 - 132 | 97% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 159 | | 44 - 137 | 106% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 114 | | 48 - 125 | 114% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 43400 | 7.559 | | | |
| 1146-65-2 | Naphthalene-d8 | 177000 | 10.326 | | | |
| 15067-26-2 | Acenaphthene-d10 | 120000 | 14.169 | | | |
| 1517-22-2 | Phenanthrene-d10 | 291000 | 16.907 | | | |
| 1719-03-5 | Chrysene-d12 | 362000 | 21.066 | | | |
| 1520-96-3 | Perylene-d12 | 470000 | 23.346 | | | |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | | | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | | | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | | | SDG No.: | P4722 |
| Lab Sample ID: | P4722-14 | | | Matrix: | TCLP |
| Analytical Method: | SW8270 | | | % Solid: | 0 |
| Sample Wt/Vol: | 100 | Units: | mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | TCLP BNA |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101560.D | 1 | 11/07/24 11:30 | 11/08/24 19:54 | PB164765 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/07/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/07/24 |
| Client Sample ID: | PB164694TB | SDG No.: | P4722 |
| Lab Sample ID: | PB164694TB | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101547.D | 1 | 11/07/24 11:30 | 11/08/24 12:03 | PB164765 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 15.5 | U | 15.5 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 8.40 | U | 8.40 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 11.3 | U | 11.3 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 11.5 | U | 11.5 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 10.1 | U | 10.1 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 12.7 | U | 12.7 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 12.7 | U | 12.7 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 8.90 | U | 8.90 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 10.1 | U | 10.1 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 15.2 | U | 15.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 11.4 | U | 11.4 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 18.5 | U | 18.5 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 177 | | 10 - 139 | 118% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 166 | | 10 - 134 | 111% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 110 | | 49 - 133 | 110% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 110 | | 52 - 132 | 110% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 157 | | 44 - 137 | 104% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 112 | | 48 - 125 | 112% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 34900 | 7.555 | | | |
| 1146-65-2 | Naphthalene-d8 | 150000 | 10.329 | | | |
| 15067-26-2 | Acenaphthene-d10 | 99900 | 14.171 | | | |
| 1517-22-2 | Phenanthrene-d10 | 241000 | 16.909 | | | |
| 1719-03-5 | Chrysene-d12 | 325000 | 21.069 | | | |
| 1520-96-3 | Perylene-d12 | 415000 | 23.349 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/07/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/07/24 |
| Client Sample ID: | PB164694TB | SDG No.: | P4722 |
| Lab Sample ID: | PB164694TB | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101547.D | 1 | 11/07/24 11:30 | 11/08/24 12:03 | PB164765 |

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

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

# QC SUMMARY

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

# Surrogate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P4722-04 | WC-1(0-6) | 2-Fluorophenol | 150 | 132 | 88 | | 10 | 139 |
| | | Phenol-d6 | 150 | 107 | 71 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 96.3 | 96 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 94.4 | 94 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 155 | 103 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 111 | 111 | | 48 | 125 |
| P4722-09 | WC-2(0-6) | 2-Fluorophenol | 150 | 155 | 103 | | 10 | 139 |
| | | Phenol-d6 | 150 | 129 | 86 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 106 | 106 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 103 | 103 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 162 | 108 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 121 | 121 | | 48 | 125 |
| P4722-14 | WC-3(0-6) | 2-Fluorophenol | 150 | 140 | 94 | | 10 | 139 |
| | | Phenol-d6 | 150 | 123 | 82 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 98.7 | 99 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 97.4 | 97 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 159 | 106 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 114 | 114 | | 48 | 125 |
| P4739-04MS | TP-14MS | 2-Fluorophenol | 150 | 175 | 117 | | 10 | 139 |
| | | Phenol-d6 | 150 | 155 | 103 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 112 | 112 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 110 | 110 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 166 | 110 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 115 | 115 | | 48 | 125 |
| P4739-04MSD | TP-14MSD | 2-Fluorophenol | 150 | 175 | 117 | | 10 | 139 |
| | | Phenol-d6 | 150 | 156 | 104 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 114 | 114 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 109 | 109 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 168 | 112 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 115 | 115 | | 48 | 125 |
| PB164694TB | PB164694TB | 2-Fluorophenol | 150 | 177 | 118 | | 10 | 139 |
| | | Phenol-d6 | 150 | 166 | 111 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 110 | 110 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 110 | 110 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 157 | 104 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 112 | 112 | | 48 | 125 |
| PB164765BL | PB164765BL | 2-Fluorophenol | 150 | 148 | 99 | | 10 | 139 |
| | | Phenol-d6 | 150 | 146 | 97 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 101 | 101 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 94.3 | 94 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 184 | 122 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 96.4 | 96 | | 48 | 125 |
| PB164765BS | PB164765BS | 2-Fluorophenol | 150 | 175 | 116 | | 10 | 139 |
| | | Phenol-d6 | 150 | 164 | 109 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 103 | 103 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 103 | 103 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 149 | 99 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 104 | 104 | | 48 | 125 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4739-04MS** | | **Client Sample ID: TP-14MS** | | | | | | **DataFile: BE101557.D** | | | |
| Pyridine | 500 | 0 | 340 | ug/L | 68 | | | | 10 | 109 | |
| 1,4-Dichlorobenzene | 500 | 0 | 520 | ug/L | 104 | | | | 55 | 125 | |
| 2-Methylphenol | 500 | 0 | 560 | ug/L | 112 | | | | 37 | 126 | |
| 3+4-Methylphenols | 500 | 0 | 540 | ug/L | 108 | | | | 31 | 127 | |
| Hexachloroethane | 500 | 0 | 520 | ug/L | 104 | | | | 49 | 110 | |
| Nitrobenzene | 500 | 0 | 540 | ug/L | 108 | | | | 62 | 112 | |
| Hexachlorobutadiene | 500 | 0 | 510 | ug/L | 102 | | | | 52 | 125 | |
| 2,4,6-Trichlorophenol | 500 | 0 | 590 | ug/L | 118 | * | | | 78 | 112 | |
| 2,4,5-Trichlorophenol | 500 | 0 | 580 | ug/L | 116 | * | | | 71 | 111 | |
| 2,4-Dinitrotoluene | 500 | 0 | 550 | ug/L | 110 | | | | 50 | 142 | |
| Hexachlorobenzene | 500 | 0 | 550 | ug/L | 110 | | | | 72 | 115 | |
| Pentachlorophenol | 1000 | 0 | 1300 | ug/L | 130 | | | | 25 | 139 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** P4739-04MSD | | **Client Sample ID:** TP-14MSD | | | | | | **DataFile:** BE101558.D | | | |
| Pyridine | 500 | 0 | 330 | ug/L | 66 | | 3 | | 10 | 109 | 20 |
| 1,4-Dichlorobenzene | 500 | 0 | 510 | ug/L | 102 | | 2 | | 55 | 125 | 20 |
| 2-Methylphenol | 500 | 0 | 550 | ug/L | 110 | | 2 | | 37 | 126 | 20 |
| 3+4-Methylphenols | 500 | 0 | 550 | ug/L | 110 | | 2 | | 31 | 127 | 20 |
| Hexachloroethane | 500 | 0 | 510 | ug/L | 102 | | 2 | | 49 | 110 | 20 |
| Nitrobenzene | 500 | 0 | 550 | ug/L | 110 | | 2 | | 62 | 112 | 20 |
| Hexachlorobutadiene | 500 | 0 | 510 | ug/L | 102 | | 0 | | 52 | 125 | 20 |
| 2,4,6-Trichlorophenol | 500 | 0 | 590 | ug/L | 118 | * | 0 | | 78 | 112 | 20 |
| 2,4,5-Trichlorophenol | 500 | 0 | 580 | ug/L | 116 | * | 0 | | 71 | 111 | 20 |
| 2,4-Dinitrotoluene | 500 | 0 | 560 | ug/L | 112 | | 2 | | 50 | 142 | 20 |
| Hexachlorobenzene | 500 | 0 | 540 | ug/L | 108 | | 2 | | 72 | 115 | 20 |
| Pentachlorophenol | 1000 | 0 | 1200 | ug/L | 120 | | 8 | | 25 | 139 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8270E **DataFile:** BE101546.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164765BS | Pyridine | 50 | 38.5 | ug/L | 77 | | | | 29 | 97 | |
| | 1,4-Dichlorobenzene | 50 | 48.0 | ug/L | 96 | | | | 76 | 103 | |
| | 2-Methylphenol | 50 | 53.8 | ug/L | 108 | | | | 69 | 109 | |
| | 3+4-Methylphenols | 50 | 52.7 | ug/L | 105 | | | | 67 | 106 | |
| | Hexachloroethane | 50 | 47.3 | ug/L | 95 | | | | 76 | 118 | |
| | Nitrobenzene | 50 | 49.6 | ug/L | 99 | | | | 58 | 106 | |
| | Hexachlorobutadiene | 50 | 44.9 | ug/L | 90 | | | | 69 | 101 | |
| | 2,4,6-Trichlorophenol | 50 | 52.2 | ug/L | 104 | | | | 61 | 110 | |
| | 2,4,5-Trichlorophenol | 50 | 51.0 | ug/L | 102 | | | | 70 | 106 | |
| | 2,4-Dinitrotoluene | 50 | 50.2 | ug/L | 100 | | | | 60 | 115 | |
| | Hexachlorobenzene | 50 | 48.3 | ug/L | 97 | | | | 73 | 106 | |
| | Pentachlorophenol | 100 | 110 | ug/L | 110 | | | | 47 | 114 | |

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4B

# SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164765BL

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140287.D Lab Sample ID: PB164765BL

Instrument ID: BNA_F Date Extracted: 11/07/2024

Matrix: (soil/water) water Date Analyzed: 11/08/2024

Level: (low/med) LOW Time Analyzed: 10:02

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| WC-1(0-6) | P4722-04 | BE101562.D | 11/08/2024 |
| WC-2(0-6) | P4722-09 | BE101561.D | 11/08/2024 |
| PB164694TB | PB164694TB | BE101547.D | 11/08/2024 |
| TP-14MS | P4739-04MS | BE101557.D | 11/08/2024 |
| TP-14MSD | P4739-04MSD | BE101558.D | 11/08/2024 |
| WC-3(0-6) | P4722-14 | BE101560.D | 11/08/2024 |
| PB164765BS | PB164765BS | BE101546.D | 11/08/2024 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BE101491.D DFTPP Injection Date: 11/06/2024

Instrument ID: BNA_E DFTPP Injection Time: 11:40

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 14.8 |
| 68 | Less than 2.0% of mass 69 | 0.2 ( 1.3 ) 1 |
| 69 | Mass 69 relative abundance | 16 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.4 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 23.5 |
| 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 | 3.6 |
| 275 | 10.0 - 60.0% of mass 198 | 18.3 |
| 365 | Greater than 1% of mass 198 | 2.9 |
| 441 | Present, but less than mass 443 | 16.4 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.6 (19.6) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BE101493.D | 11/06/2024 | 13:51 |
| SSTDICC005 | SSTDICC005 | BE101494.D | 11/06/2024 | 14:27 |
| SSTDICC010 | SSTDICC010 | BE101495.D | 11/06/2024 | 15:03 |
| SSTDICC020 | SSTDICC020 | BE101496.D | 11/06/2024 | 15:39 |
| SSTDICCC040 | SSTDICCC040 | BE101497.D | 11/06/2024 | 16:14 |
| SSTDICC050 | SSTDICC050 | BE101498.D | 11/06/2024 | 16:50 |
| SSTDICC060 | SSTDICC060 | BE101499.D | 11/06/2024 | 17:26 |
| SSTDICC080 | SSTDICC080 | BE101500.D | 11/06/2024 | 18:02 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BE101543.D DFTPP Injection Date: 11/08/2024

Instrument ID: BNA_E DFTPP Injection Time: 09:34

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 16.2 |
| 68 | Less than 2.0% of mass 69 | 0.2 ( 1 ) 1 |
| 69 | Mass 69 relative abundance | 17.2 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 24.7 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 3.8 |
| 275 | 10.0 - 60.0% of mass 198 | 19.1 |
| 365 | Greater than 1% of mass 198 | 3 |
| 441 | Present, but less than mass 443 | 16.4 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.3 (19.3) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BE101544.D | 11/08/2024 | 10:07 |
| PB164765BS | PB164765BS | BE101546.D | 11/08/2024 | 11:27 |
| PB164694TB | PB164694TB | BE101547.D | 11/08/2024 | 12:03 |
| TP-14MS | P4739-04MS | BE101557.D | 11/08/2024 | 18:07 |
| TP-14MSD | P4739-04MSD | BE101558.D | 11/08/2024 | 18:43 |
| WC-3(0-6) | P4722-14 | BE101560.D | 11/08/2024 | 19:54 |
| WC-2(0-6) | P4722-09 | BE101561.D | 11/08/2024 | 20:30 |
| WC-1(0-6) | P4722-04 | BE101562.D | 11/08/2024 | 21:06 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140230.D DFTPP Injection Date: 11/05/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:56

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 38.4 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.6 ) 1 |
| 69 | Mass 69 relative abundance | 36.6 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 45.5 |
| 197 | Less than 2.0% of mass 198 | 0.7 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 27.8 |
| 365 | Greater than 1% of mass 198 | 4.1 |
| 441 | Present, but less than mass 443 | 15.6 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19 ( 19 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF140231.D | 11/05/2024 | 12:26 |
| SSTDICC005 | SSTDICC005 | BF140232.D | 11/05/2024 | 12:52 |
| SSTDICC010 | SSTDICC010 | BF140233.D | 11/05/2024 | 13:18 |
| SSTDICC020 | SSTDICC020 | BF140234.D | 11/05/2024 | 13:45 |
| SSTDICCC040 | SSTDICCC040 | BF140235.D | 11/05/2024 | 14:11 |
| SSTDICC050 | SSTDICC050 | BF140236.D | 11/05/2024 | 14:37 |
| SSTDICC060 | SSTDICC060 | BF140237.D | 11/05/2024 | 15:03 |
| SSTDICC080 | SSTDICC080 | BF140238.D | 11/05/2024 | 15:30 |

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5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140285.D DFTPP Injection Date: 11/08/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:09

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 28.4 |
| 68 | Less than 2.0% of mass 69 | 0.5 ( 2 ) 1 |
| 69 | Mass 69 relative abundance | 27.7 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 36.3 |
| 197 | Less than 2.0% of mass 198 | 0.5 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 5.8 |
| 275 | 10.0 - 60.0% of mass 198 | 25.2 |
| 365 | Greater than 1% of mass 198 | 3.3 |
| 441 | Present, but less than mass 443 | 15.2 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.4 (19.4) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF140286.D | 11/08/2024 | 09:35 |
| PB164765BL | PB164765BL | BF140287.D | 11/08/2024 | 10:02 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BE101544.D Time Analyzed: 10:07

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 51174 | 7.558 | 237509 | 10.33 | 179651 | 14.17 |
| | UPPER LIMIT | 102348 | 8.058 | 475018 | 10.826 | 359302 | 14.674 |
| | LOWER LIMIT | 25587 | 7.058 | 118755 | 9.826 | 89825.5 | 13.674 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164765BS | 39669 | 7.56 | 182397 | 10.33 | 121151 | 14.17 |
| 02 | PB164694TB | 34932 | 7.56 | 149600 | 10.33 | 99908 | 14.17 |
| 03 | WC-1(0-6) | 43597 | 7.56 | 181077 | 10.33 | 121098 | 14.16 |
| 04 | WC-2(0-6) | 40529 | 7.56 | 171441 | 10.33 | 113413 | 14.17 |
| 05 | WC-3(0-6) | 43377 | 7.56 | 177204 | 10.33 | 120124 | 14.17 |
| 06 | TP-14MS | 47543 | 7.56 | 202399 | 10.33 | 130758 | 14.17 |
| 07 | TP-14MSD | 43513 | 7.56 | 182419 | 10.33 | 120731 | 14.17 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BE101544.D Time Analyzed: 10:07

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 420948 | 16.912 | 472751 | 21.072 | 602462 | 23.357 |
| | UPPER LIMIT | 841896 | 17.412 | 945502 | 21.572 | 1204920 | 23.857 |
| | LOWER LIMIT | 210474 | 16.412 | 236376 | 20.572 | 301231 | 22.857 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164765BS | 268998 | 16.91 | 348750 | 21.07 | 477959 | 23.35 |
| 02 | PB164694TB | 241198 | 16.91 | 324971 | 21.07 | 414995 | 23.35 |
| 03 | WC-1(0-6) | 293866 | 16.90 | 362629 | 21.07 | 463143 | 23.35 |
| 04 | WC-2(0-6) | 271101 | 16.91 | 324956 | 21.07 | 419473 | 23.35 |
| 05 | WC-3(0-6) | 290802 | 16.91 | 361520 | 21.07 | 469692 | 23.35 |
| 06 | TP-14MS | 298419 | 16.91 | 369646 | 21.07 | 476783 | 23.35 |
| 07 | TP-14MSD | 285084 | 16.91 | 361953 | 21.07 | 460616 | 23.35 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BF140286.D Time Analyzed: 09:35

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 203786 | 6.881 | 760595 | 8.16 | 473134 | 9.92 |
| | UPPER LIMIT | 407572 | 7.381 | 1521190 | 8.663 | 946268 | 10.422 |
| | LOWER LIMIT | 101893 | 6.381 | 380298 | 7.663 | 236567 | 9.422 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164765BL | 180593 | 6.88 | 699300 | 8.16 | 441390 | 9.92 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BF140286.D Time Analyzed: 09:35

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 883136 | 11.41 | 554697 | 14.063 | 449723 | 15.551 |
| | UPPER LIMIT | 1766270 | 11.91 | 1109390 | 14.563 | 899446 | 16.051 |
| | LOWER LIMIT | 441568 | 10.91 | 277349 | 13.563 | 224862 | 15.051 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164765BL | 869591 | 11.40 | 647570 | 14.05 | 498484 | 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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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164765BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164765BL | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140287.D | 1 | 11/07/24 11:30 | 11/08/24 10:02 | PB164765 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 1.60 | U | 1.60 | 5.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.84 | U | 0.84 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.10 | U | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.20 | U | 1.20 | 10.0 | ug/L |
| 67-72-1 | Hexachloroethane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.89 | U | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 1.00 | U | 1.00 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.50 | U | 1.50 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 1.90 | U | 1.90 | 10.0 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 148 | | 10 - 139 | 99% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 146 | | 10 - 134 | 97% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 101 | | 49 - 133 | 101% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 94.3 | | 52 - 132 | 94% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 184 | | 44 - 137 | 122% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 96.4 | | 48 - 125 | 96% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 181000 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 699000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 441000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 870000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 648000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 498000 | 15.545 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164765BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164765BL | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140287.D | 1 | 11/07/24 11:30 | 11/08/24 10:02 | PB164765 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164765BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164765BS | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101546.D | 1 | 11/07/24 11:30 | 11/08/24 11:27 | PB164765 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 38.5 | | 1.60 | 5.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 48.0 | | 0.84 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 53.8 | | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 52.7 | | 1.20 | 10.0 | ug/L |
| 67-72-1 | Hexachloroethane | 47.3 | | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 49.6 | | 1.30 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 44.9 | | 1.30 | 5.00 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 52.2 | | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 51.0 | | 1.00 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 50.2 | | 1.50 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 48.3 | | 1.10 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 110 | E | 1.90 | 10.0 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 175 | | 10 - 139 | 116% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 164 | | 10 - 134 | 109% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 103 | | 49 - 133 | 103% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 103 | | 52 - 132 | 103% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 149 | | 44 - 137 | 99% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 104 | | 48 - 125 | 104% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 39700 | 7.559 | | | |
| 1146-65-2 | Naphthalene-d8 | 182000 | 10.326 | | | |
| 15067-26-2 | Acenaphthene-d10 | 121000 | 14.169 | | | |
| 1517-22-2 | Phenanthrene-d10 | 269000 | 16.907 | | | |
| 1719-03-5 | Chrysene-d12 | 349000 | 21.072 | | | |
| 1520-96-3 | Perylene-d12 | 478000 | 23.352 | | | |

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# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | | | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | | | Date Received: | |
| Client Sample ID: | PB164765BS | | | SDG No.: | P4722 |
| Lab Sample ID: | PB164765BS | | | Matrix: | TCLP |
| Analytical Method: | SW8270 | | | % Solid: | 0 |
| Sample Wt/Vol: | 1000 | Units: | mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | TCLP BNA |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3510C | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101546.D | 1 | 11/07/24 11:30 | 11/08/24 11:27 | PB164765 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/06/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/06/24 |
| Client Sample ID: | TP-14MS | SDG No.: | P4722 |
| Lab Sample ID: | P4739-04MS | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101557.D | 1 | 11/07/24 11:30 | 11/08/24 18:07 | PB164765 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 340 | | 15.5 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 520 | | 8.40 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 560 | | 11.3 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 540 | | 11.5 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 520 | | 10.1 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 540 | | 12.7 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 510 | | 12.7 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 590 | | 8.90 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 580 | | 10.1 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 550 | | 15.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 550 | | 11.4 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 1300 | E | 18.5 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 175 | | 10 - 139 | 117% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 155 | | 10 - 134 | 103% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 112 | | 49 - 133 | 112% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 110 | | 52 - 132 | 110% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 166 | | 44 - 137 | 110% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 115 | | 48 - 125 | 115% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 47500 | 7.558 | | | |
| 1146-65-2 | Naphthalene-d8 | 202000 | 10.326 | | | |
| 15067-26-2 | Acenaphthene-d10 | 131000 | 14.168 | | | |
| 1517-22-2 | Phenanthrene-d10 | 298000 | 16.906 | | | |
| 1719-03-5 | Chrysene-d12 | 370000 | 21.072 | | | |
| 1520-96-3 | Perylene-d12 | 477000 | 23.351 | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/06/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/06/24 |
| Client Sample ID: | TP-14MS | SDG No.: | P4722 |
| Lab Sample ID: | P4739-04MS | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101557.D | 1 | 11/07/24 11:30 | 11/08/24 18:07 | PB164765 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/06/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/06/24 |
| Client Sample ID: | TP-14MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4739-04MSD | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101558.D | 1 | 11/07/24 11:30 | 11/08/24 18:43 | PB164765 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 110-86-1 | Pyridine | 330 | | 15.5 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 510 | | 8.40 | 50.0 | ug/L |
| 95-48-7 | 2-Methylphenol | 550 | | 11.3 | 50.0 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 550 | | 11.5 | 100 | ug/L |
| 67-72-1 | Hexachloroethane | 510 | | 10.1 | 50.0 | ug/L |
| 98-95-3 | Nitrobenzene | 550 | | 12.7 | 50.0 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 510 | | 12.7 | 50.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 590 | | 8.90 | 50.0 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 580 | | 10.1 | 50.0 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 560 | | 15.2 | 50.0 | ug/L |
| 118-74-1 | Hexachlorobenzene | 540 | | 11.4 | 50.0 | ug/L |
| 87-86-5 | Pentachlorophenol | 1200 | E | 18.5 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 175 | | 10 - 139 | 117% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 156 | | 10 - 134 | 104% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 114 | | 49 - 133 | 114% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 109 | | 52 - 132 | 109% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 168 | | 44 - 137 | 112% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 115 | | 48 - 125 | 115% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 43500 | 7.558 | | | |
| 1146-65-2 | Naphthalene-d8 | 182000 | 10.326 | | | |
| 15067-26-2 | Acenaphthene-d10 | 121000 | 14.168 | | | |
| 1517-22-2 | Phenanthrene-d10 | 285000 | 16.906 | | | |
| 1719-03-5 | Chrysene-d12 | 362000 | 21.072 | | | |
| 1520-96-3 | Perylene-d12 | 461000 | 23.352 | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/06/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/06/24 |
| Client Sample ID: | TP-14MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4739-04MSD | Matrix: | TCLP |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101558.D | 1 | 11/07/24 11:30 | 11/08/24 18:43 | PB164765 |

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

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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J = Estimated Value
B = Analyte Found in Associated Method Blank
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_E

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 07 00:01:20 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BE101493.D 5 =BE101494.D 10 =BE101495.D 20 =BE101496.D 40 =BE101497.D 50 =BE101498.D 60 =BE101499.D 80 =BE101500.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.495 | 0.458 | 0.438 | 0.406 | 0.378 | 0.394 | 0.378 | 0.421 | 10.54 |
| 3) | | Pyridine | | 1.154 | 1.183 | 1.143 | 1.154 | 1.192 | 1.230 | 1.186 | 1.177 | 2.53 |
| 4) | | n-Nitrosodimet... | | 0.509 | 0.465 | 0.446 | 0.445 | 0.461 | 0.473 | 0.464 | 0.466 | 4.58 |
| 5) | S | 2-Fluorophenol | | 1.161 | 1.135 | 1.120 | 1.101 | 1.114 | 1.159 | 1.127 | 1.131 | 1.99 |
| 6) | | Aniline | | 1.323 | 1.251 | 1.316 | 1.368 | 1.026 | 1.044 | 0.819 | 1.164 | 17.52 |
| 7) | S | Phenol-d6 | | 1.494 | 1.525 | 1.558 | 1.540 | 1.571 | 1.617 | 1.551 | 1.551 | 2.49 |
| 8) | | 2-Chlorophenol | | 1.339 | 1.343 | 1.359 | 1.316 | 1.336 | 1.364 | 1.324 | 1.340 | 1.30 |
| 9) | | Benzaldehyde | | 0.902 | 0.930 | 0.875 | 0.767 | 0.654 | 0.640 | 0.542 | 0.759 | 19.80 |
| 10) | C | Phenol | | 1.646 | 1.682 | 1.702 | 1.664 | 1.709 | 1.764 | 1.649 | 1.688 | 2.45 |
| 11) | | bis(2-Chloroet... | | 1.362 | 1.474 | 1.392 | 1.165 | 1.446 | 1.447 | 1.497 | 1.397 | 8.03 |
| 12) | | 1,3-Dichlorobe... | | 1.573 | 1.526 | 1.491 | 1.424 | 1.410 | 1.437 | 1.379 | 1.463 | 4.74 |
| 13) | C | 1,4-Dichlorobe... | | 1.565 | 1.543 | 1.508 | 1.444 | 1.437 | 1.464 | 1.412 | 1.482 | 3.89 |
| 14) | | 1,2-Dichlorobe... | | 1.559 | 1.496 | 1.481 | 1.418 | 1.416 | 1.435 | 1.378 | 1.455 | 4.20 |
| 15) | | Benzyl Alcohol | | 0.791 | 0.861 | 0.910 | 0.919 | 0.958 | 0.977 | 0.926 | 0.906 | 6.94 |
| 16) | | 2,2'-oxybis(1-... | | 1.733 | 1.690 | 1.700 | 1.628 | 1.625 | 1.636 | 1.567 | 1.654 | 3.41 |
| 17) | | 2-Methylphenol | | 1.015 | 1.041 | 1.073 | 1.113 | 1.123 | 1.163 | 1.123 | 1.093 | 4.76 |
| 18) | | Hexachloroethane | | 0.524 | 0.509 | 0.507 | 0.484 | 0.494 | 0.501 | 0.483 | 0.500 | 2.95 |
| 19) | P | n-Nitroso-di-n... | 0.958 | 0.996 | 1.040 | 1.058 | 1.027 | 1.046 | 1.057 | 0.998 | 1.023 | 3.48 |
| 20) | | 3+4-Methylphenols | | 1.376 | 1.483 | 1.529 | 1.524 | 1.558 | 1.606 | 1.530 | 1.515 | 4.74 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.462 | 0.460 | 0.461 | 0.443 | 0.447 | 0.455 | 0.443 | 0.453 | 1.91 |
| 23) | S | Nitrobenzene-d5 | | 0.313 | 0.316 | 0.318 | 0.312 | 0.318 | 0.325 | 0.313 | 0.317 | 1.46 |
| 24) | | Nitrobenzene | | 0.325 | 0.329 | 0.330 | 0.324 | 0.329 | 0.338 | 0.330 | 0.329 | 1.41 |
| 25) | | Isophorone | | 0.599 | 0.619 | 0.632 | 0.611 | 0.618 | 0.630 | 0.605 | 0.616 | 1.98 |
| 26) | C | 2-Nitrophenol | | 0.159 | 0.167 | 0.175 | 0.174 | 0.182 | 0.187 | 0.183 | 0.175 | 5.41 |
| 27) | | 2,4-Dimethylph... | | 0.196 | 0.199 | 0.204 | 0.198 | 0.205 | 0.212 | 0.206 | 0.203 | 2.83 |
| 28) | | bis(2-Chloroet... | | 0.376 | 0.383 | 0.386 | 0.371 | 0.375 | 0.381 | 0.369 | 0.377 | 1.65 |
| 29) | C | 2,4-Dichloroph... | | 0.275 | 0.279 | 0.289 | 0.283 | 0.294 | 0.302 | 0.294 | 0.288 | 3.35 |
| 30) | | 1,2,4-Trichlor... | | 0.344 | 0.326 | 0.323 | 0.311 | 0.313 | 0.321 | 0.312 | 0.321 | 3.63 |
| 31) | | Naphthalene | | 1.071 | 1.033 | 1.027 | 0.983 | 0.983 | 1.003 | 0.968 | 1.010 | 3.58 |
| 32) | | Benzoic acid | | | 0.112 | 0.137 | 0.166 | 0.191 | 0.202 | 0.202 | 0.168 | 22.18 |
| 33) | | 4-Chloroaniline | | 0.342 | 0.364 | 0.371 | 0.358 | 0.356 | 0.361 | 0.334 | 0.355 | 3.65 |
| 34) | C | Hexachlorobuta... | | 0.209 | 0.198 | 0.202 | 0.192 | 0.195 | 0.198 | 0.193 | 0.198 | 2.95 |
| 35) | | Caprolactam | | 0.097 | 0.107 | 0.107 | 0.107 | 0.106 | 0.111 | 0.105 | 0.106 | 4.09 |
| 36) | C | 4-Chloro-3-met... | | 0.293 | 0.318 | 0.316 | 0.312 | 0.318 | 0.327 | 0.317 | 0.314 | 3.27 |
| 37) | | 2-Methylnaphth... | | 0.744 | 0.733 | 0.733 | 0.706 | 0.705 | 0.715 | 0.684 | 0.717 | 2.93 |
| 38) | | 1-Methylnaphth... | | 0.752 | 0.738 | 0.734 | 0.696 | 0.697 | 0.711 | 0.679 | 0.715 | 3.72 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.546 | 0.518 | 0.535 | 0.513 | 0.519 | 0.535 | 0.525 | 0.527 | 2.24 |
| 41) | P | Hexachlorocycl... | 0.106 | 0.128 | 0.153 | 0.167 | 0.175 | 0.178 | 0.171 | 0.154 | 17.72 |
| 42) | S | 2,4,6-Tribromo... | 0.388 | 0.391 | 0.391 | 0.369 | 0.364 | 0.375 | 0.357 | 0.376 | 3.64 |
| 43) | C | 2,4,6-Trichlor... | 0.358 | 0.352 | 0.360 | 0.358 | 0.361 | 0.376 | 0.369 | 0.362 | 2.21 |
| 44) | | 2,4,5-Trichlor... | 0.390 | 0.381 | 0.402 | 0.400 | 0.411 | 0.425 | 0.415 | 0.403 | 3.71 |
| 45) | S | 2-Fluorobiphenyl | 1.353 | 1.295 | 1.299 | 1.204 | 1.160 | 1.163 | 1.100 | 1.225 | 7.52 |
| 46) | | 1,1'-Biphenyl | 1.451 | 1.416 | 1.424 | 1.336 | 1.344 | 1.366 | 1.320 | 1.380 | 3.66 |
| 47) | | 2-Chloronaphth... | 1.124 | 1.104 | 1.115 | 1.060 | 1.065 | 1.091 | 1.060 | 1.088 | 2.49 |
| 48) | | 2-Nitroaniline | 0.248 | 0.273 | 0.292 | 0.288 | 0.300 | 0.312 | 0.302 | 0.288 | 7.44 |
| 49) | | Acenaphthylene | 1.664 | 1.660 | 1.661 | 1.584 | 1.586 | 1.629 | 1.565 | 1.622 | 2.62 |
| 50) | | Dimethylphthalate | 1.500 | 1.479 | 1.478 | 1.389 | 1.368 | 1.403 | 1.352 | 1.424 | 4.22 |
| 51) | | 2,6-Dinitrotol... | 0.316 | 0.330 | 0.336 | 0.324 | 0.327 | 0.338 | 0.329 | 0.329 | 2.23 |
| 52) | C | Acenaphthene | 1.116 | 1.075 | 1.080 | 1.007 | 0.996 | 1.007 | 0.962 | 1.035 | 5.38 |
| 53) | | 3-Nitroaniline | 0.282 | 0.320 | 0.335 | 0.328 | 0.323 | 0.333 | 0.314 | 0.319 | 5.67 |
| 54) | P | 2,4-Dinitrophenol | | 0.139 | 0.178 | 0.194 | 0.208 | 0.220 | 0.217 | 0.193 | 15.82 |
| 55) | | Dibenzofuran | 1.799 | 1.736 | 1.724 | 1.615 | 1.591 | 1.629 | 1.568 | 1.666 | 5.20 |
| 56) | P | 4-Nitrophenol | 0.197 | 0.235 | 0.278 | 0.275 | 0.274 | 0.295 | 0.290 | 0.264 | 13.26 |
| 57) | | 2,4-Dinitrotol... | 0.426 | 0.456 | 0.480 | 0.460 | 0.463 | 0.482 | 0.466 | 0.462 | 3.99 |
| 58) | | Fluorene | 1.490 | 1.475 | 1.458 | 1.363 | 1.328 | 1.347 | 1.272 | 1.391 | 6.03 |
| 59) | | 2,3,4,6-Tetrac... | 0.379 | 0.366 | 0.377 | 0.369 | 0.370 | 0.381 | 0.372 | 0.373 | 1.53 |
| 60) | | Diethylphthalate | 1.600 | 1.579 | 1.577 | 1.457 | 1.442 | 1.460 | 1.397 | 1.502 | 5.41 |
| 61) | | 4-Chlorophenyl... | 0.757 | 0.736 | 0.733 | 0.689 | 0.680 | 0.692 | 0.657 | 0.706 | 5.12 |
| 62) | | 4-Nitroaniline | 0.285 | 0.334 | 0.359 | 0.349 | 0.355 | 0.366 | 0.359 | 0.344 | 8.07 |
| 63) | | Azobenzene | 1.283 | 1.269 | 1.289 | 1.196 | 1.183 | 1.203 | 1.153 | 1.225 | 4.44 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | 0.084 | 0.104 | 0.117 | 0.123 | 0.131 | 0.136 | 0.135 | 0.119 | 15.97 |
| 66) | c | n-Nitrosodiphe... | 0.550 | 0.534 | 0.545 | 0.519 | 0.526 | 0.533 | 0.509 | 0.531 | 2.68 |
| 67) | | 4-Bromophenyl-... | 0.226 | 0.218 | 0.221 | 0.214 | 0.221 | 0.225 | 0.219 | 0.221 | 1.85 |
| 68) | | Hexachlorobenzene | 0.301 | 0.290 | 0.295 | 0.282 | 0.287 | 0.294 | 0.283 | 0.290 | 2.33 |
| 69) | | Atrazine | 0.202 | 0.187 | 0.151 | 0.171 | 0.121 | 0.135 | 0.130 | 0.157 | 19.70 |
| 70) | C | Pentachlorophenol | 0.129 | 0.139 | 0.155 | 0.162 | 0.167 | 0.176 | 0.176 | 0.158 | 11.39 |
| 71) | | Phenanthrene | 1.067 | 1.000 | 1.016 | 0.942 | 0.936 | 0.947 | 0.901 | 0.973 | 5.87 |
| 72) | | Anthracene | 1.030 | 0.985 | 0.998 | 0.943 | 0.932 | 0.949 | 0.887 | 0.961 | 4.94 |
| 73) | | Carbazole | 1.030 | 1.003 | 1.001 | 0.940 | 0.924 | 0.947 | 0.899 | 0.963 | 5.00 |
| 74) | | Di-n-butylphth... | 1.312 | 1.269 | 1.261 | 1.170 | 1.128 | 1.121 | 1.068 | 1.190 | 7.68 |
| 75) | C | Fluoranthene | 1.442 | 1.353 | 1.316 | 1.208 | 1.157 | 1.158 | 1.096 | 1.247 | 10.04 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.324 | 0.433 | 0.250 | 0.403 | 0.656 | 0.503 | 0.440 | 0.430 | 30.17 |
| 78) | | Pyrene | 1.201 | 1.158 | 1.199 | 1.130 | 1.125 | 1.117 | 1.036 | 1.138 | 4.95 |
| 79) | S | Terphenyl-d14 | 1.065 | 1.023 | 1.028 | 0.902 | 0.819 | 0.780 | 0.707 | 0.904 | 15.44 |
| 80) | | Butylbenzylpht... | 0.541 | 0.522 | 0.531 | 0.507 | 0.500 | 0.505 | 0.474 | 0.511 | 4.31 |
| 81) | | Benzo(a)anthra... | 1.334 | 1.258 | 1.258 | 1.170 | 1.138 | 1.118 | 1.040 | 1.188 | 8.47 |
| 82) | | 3,3'-Dichlorob... | 0.466 | 0.474 | 0.480 | 0.469 | 0.478 | 0.467 | 0.439 | 0.468 | 2.92 |
| 83) | | Chrysene | 1.261 | 1.215 | 1.207 | 1.116 | 1.074 | 1.050 | 0.979 | 1.129 | 9.06 |
| 84) | | Bis(2-ethylhex... | 0.857 | 0.816 | 0.822 | 0.760 | 0.738 | 0.733 | 0.686 | 0.773 | 7.81 |
| 85) | c | Di-n-octyl pht... | 1.510 | 1.430 | 1.383 | 1.284 | 1.226 | 1.203 | 1.119 | 1.308 | 10.60 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.480 | 1.394 | 1.411 | 1.347 | 1.342 | 1.357 | 1.290 | 1.374 | 4.40 |
| 88) | | Benzo(b)fluora... | 1.220 | 1.158 | 1.107 | 1.056 | 1.053 | 1.073 | 1.014 | 1.097 | 6.46 |
| 89) | | Benzo(k)fluora... | 1.119 | 1.045 | 1.080 | 0.977 | 0.966 | 0.937 | 0.849 | 0.996 | 9.23 |
| 90) | C | Benzo(a)pyrene | 1.023 | 0.974 | 0.977 | 0.926 | 0.923 | 0.931 | 0.877 | 0.947 | 5.02 |
| 91) | | Dibenzo(a,h)an... | 1.250 | 1.169 | 1.189 | 1.128 | 1.111 | 1.119 | 1.047 | 1.145 | 5.68 |
| 92) | | Benzo(g,h,i)pe... | 1.239 | 1.164 | 1.182 | 1.133 | 1.148 | 1.162 | 1.113 | 1.163 | 3.46 |

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 05 16:47:56 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140231.D 5 =BF140232.D 10 =BF140233.D 20 =BF140234.D 40 =BF140235.D 50 =BF140236.D 60 =BF140237.D 80 =BF1402
38.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.613 | 0.582 | 0.576 | 0.550 | 0.526 | 0.527 | 0.511 | 0.555 | 6.64 |
| 3) | | Pyridine | | 1.464 | 1.445 | 1.402 | 1.340 | 1.296 | 1.298 | 1.233 | 1.354 | 6.33 |
| 4) | | n-Nitrosodimet... | | 0.799 | 0.792 | 0.802 | 0.780 | 0.767 | 0.786 | 0.746 | 0.782 | 2.52 |
| 5) | S | 2-Fluorophenol | | 1.359 | 1.298 | 1.261 | 1.159 | 1.138 | 1.151 | 1.083 | 1.207 | 8.29 |
| 6) | | Aniline | | 1.609 | 1.513 | 1.499 | 1.365 | 1.316 | 1.298 | 1.218 | 1.402 | 9.99 |
| 7) | S | Phenol-d6 | | 1.765 | 1.679 | 1.604 | 1.495 | 1.462 | 1.468 | 1.392 | 1.552 | 8.66 |
| 8) | | 2-Chlorophenol | | 1.441 | 1.385 | 1.311 | 1.214 | 1.187 | 1.182 | 1.121 | 1.263 | 9.38 |
| 9) | | Benzaldehyde | | 1.159 | 1.137 | 1.085 | 0.949 | 0.839 | 0.823 | 0.701 | 0.956 | 18.46 |
| 10) | C | Phenol | | 1.863 | 1.779 | 1.752 | 1.593 | 1.575 | 1.544 | 1.434 | 1.649 | 9.23 |
| 11) | | bis(2-Chloroet... | | 1.417 | 1.354 | 1.285 | 1.209 | 1.201 | 1.201 | 1.100 | 1.252 | 8.57 |
| 12) | | 1,3-Dichlorobe... | | 1.690 | 1.605 | 1.555 | 1.413 | 1.387 | 1.388 | 1.322 | 1.480 | 9.22 |
| 13) | C | 1,4-Dichlorobe... | | 1.720 | 1.636 | 1.551 | 1.423 | 1.393 | 1.401 | 1.322 | 1.492 | 9.78 |
| 14) | | 1,2-Dichlorobe... | | 1.622 | 1.553 | 1.494 | 1.309 | 1.291 | 1.286 | 1.201 | 1.394 | 11.49 |
| 15) | | Benzyl Alcohol | | 1.282 | 1.280 | 1.258 | 1.182 | 1.147 | 1.154 | 1.075 | 1.197 | 6.59 |
| 16) | | 2,2'-oxybis(1-... | | 2.305 | 2.213 | 2.143 | 1.958 | 1.910 | 1.898 | 1.764 | 2.027 | 9.65 |
| 17) | | 2-Methylphenol | | 1.155 | 1.105 | 1.086 | 1.028 | 1.005 | 1.022 | 0.973 | 1.053 | 6.05 |
| 18) | | Hexachloroethane | | 0.612 | 0.603 | 0.576 | 0.533 | 0.524 | 0.537 | 0.507 | 0.556 | 7.37 |
| 19) | P | n-Nitroso-di-n... | 1.035 | 1.117 | 1.062 | 1.015 | 0.949 | 0.923 | 0.936 | 0.886 | 0.990 | 8.01 |
| 20) | | 3+4-Methylphenols | | 1.503 | 1.446 | 1.403 | 1.277 | 1.240 | 1.242 | 1.150 | 1.323 | 9.73 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.564 | 0.535 | 0.512 | 0.474 | 0.461 | 0.472 | 0.453 | 0.496 | 8.43 |
| 23) | S | Nitrobenzene-d5 | | 0.435 | 0.420 | 0.415 | 0.392 | 0.387 | 0.391 | 0.377 | 0.402 | 5.21 |
| 24) | | Nitrobenzene | | 0.452 | 0.442 | 0.436 | 0.414 | 0.407 | 0.407 | 0.396 | 0.422 | 5.04 |
| 25) | | Isophorone | | 0.754 | 0.722 | 0.699 | 0.675 | 0.659 | 0.680 | 0.660 | 0.693 | 5.05 |
| 26) | C | 2-Nitrophenol | | 0.160 | 0.167 | 0.170 | 0.171 | 0.167 | 0.173 | 0.168 | 0.168 | 2.47 |
| 27) | | 2,4-Dimethylph... | | 0.240 | 0.237 | 0.234 | 0.224 | 0.221 | 0.227 | 0.216 | 0.228 | 3.88 |
| 28) | | bis(2-Chloroet... | | 0.459 | 0.441 | 0.428 | 0.400 | 0.390 | 0.399 | 0.383 | 0.415 | 6.93 |
| 29) | C | 2,4-Dichloroph... | | 0.297 | 0.299 | 0.291 | 0.278 | 0.270 | 0.277 | 0.266 | 0.283 | 4.67 |
| 30) | | 1,2,4-Trichlor... | | 0.373 | 0.362 | 0.349 | 0.328 | 0.318 | 0.327 | 0.314 | 0.339 | 6.72 |
| 31) | | Naphthalene | | 1.206 | 1.119 | 1.071 | 0.992 | 0.956 | 0.965 | 0.921 | 1.033 | 9.94 |
| 32) | | Benzoic acid | | | 0.136 | 0.161 | 0.193 | 0.207 | 0.211 | 0.216 | 0.187 | 17.07 |
| 33) | | 4-Chloroaniline | | 0.372 | 0.367 | 0.354 | 0.330 | 0.322 | 0.323 | 0.311 | 0.340 | 7.13 |
| 34) | C | Hexachlorobuta... | | 0.251 | 0.241 | 0.238 | 0.222 | 0.218 | 0.223 | 0.212 | 0.229 | 6.22 |
| 35) | | Caprolactam | | 0.090 | 0.087 | 0.088 | 0.085 | 0.084 | 0.086 | 0.082 | 0.086 | 2.94 |
| 36) | C | 4-Chloro-3-met... | | 0.337 | 0.326 | 0.319 | 0.312 | 0.303 | 0.307 | 0.298 | 0.315 | 4.33 |
| 37) | | 2-Methylnaphth... | | 0.772 | 0.743 | 0.702 | 0.644 | 0.626 | 0.627 | 0.605 | 0.674 | 9.64 |
| 38) | | 1-Methylnaphth... | | 0.765 | 0.720 | 0.691 | 0.634 | 0.612 | 0.619 | 0.583 | 0.661 | 10.00 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.657 | 0.619 | 0.600 | 0.562 | 0.559 | 0.562 | 0.538 | 0.586 | 7.15 |
| 41) | P | Hexachlorocycl... | 0.124 | 0.145 | 0.169 | 0.183 | 0.177 | 0.181 | 0.169 | 0.164 | 13.27 |
| 42) | S | 2,4,6-Tribromo... | 0.199 | 0.200 | 0.197 | 0.194 | 0.197 | 0.202 | 0.195 | 0.198 | 1.40 |
| 43) | C | 2,4,6-Trichlor... | 0.377 | 0.369 | 0.363 | 0.361 | 0.354 | 0.356 | 0.359 | 0.363 | 2.16 |
| 44) | | 2,4,5-Trichlor... | 0.391 | 0.398 | 0.396 | 0.373 | 0.374 | 0.383 | 0.355 | 0.381 | 4.02 |
| 45) | S | 2-Fluorobiphenyl | 1.481 | 1.381 | 1.312 | 1.183 | 1.148 | 1.166 | 1.097 | 1.253 | 11.27 |
| 46) | | 1,1'-Biphenyl | 1.663 | 1.590 | 1.521 | 1.376 | 1.342 | 1.347 | 1.281 | 1.446 | 10.02 |
| 47) | | 2-Chloronaphth... | 1.195 | 1.171 | 1.135 | 1.050 | 1.036 | 1.040 | 0.990 | 1.088 | 7.17 |
| 48) | | 2-Nitroaniline | 0.357 | 0.372 | 0.371 | 0.369 | 0.363 | 0.364 | 0.352 | 0.364 | 1.99 |
| 49) | | Acenaphthylene | 1.730 | 1.668 | 1.618 | 1.486 | 1.465 | 1.452 | 1.364 | 1.540 | 8.62 |
| 50) | | Dimethylphthalate | 1.363 | 1.310 | 1.262 | 1.191 | 1.182 | 1.180 | 1.135 | 1.232 | 6.65 |
| 51) | | 2,6-Dinitrotol... | 0.302 | 0.297 | 0.299 | 0.286 | 0.286 | 0.284 | 0.272 | 0.290 | 3.57 |
| 52) | C | Acenaphthene | 1.204 | 1.153 | 1.134 | 1.059 | 1.055 | 1.041 | 1.003 | 1.093 | 6.60 |
| 53) | | 3-Nitroaniline | 0.294 | 0.286 | 0.282 | 0.269 | 0.267 | 0.262 | 0.248 | 0.273 | 5.83 |
| 54) | P | 2,4-Dinitrophenol | | 0.071 | 0.101 | 0.128 | 0.135 | 0.139 | 0.142 | 0.120 | 23.23 |
| 55) | | Dibenzofuran | 1.773 | 1.683 | 1.603 | 1.467 | 1.424 | 1.421 | 1.324 | 1.528 | 10.59 |
| 56) | P | 4-Nitrophenol | 0.160 | 0.178 | 0.196 | 0.203 | 0.206 | 0.201 | 0.197 | 0.192 | 8.78 |
| 57) | | 2,4-Dinitrotol... | 0.384 | 0.385 | 0.388 | 0.374 | 0.373 | 0.374 | 0.352 | 0.376 | 3.23 |
| 58) | | Fluorene | 1.446 | 1.345 | 1.267 | 1.154 | 1.127 | 1.115 | 1.059 | 1.216 | 11.55 |
| 59) | | 2,3,4,6-Tetrac... | 0.323 | 0.324 | 0.321 | 0.305 | 0.309 | 0.308 | 0.298 | 0.313 | 3.26 |
| 60) | | Diethylphthalate | 1.360 | 1.319 | 1.271 | 1.185 | 1.170 | 1.165 | 1.097 | 1.224 | 7.72 |
| 61) | | 4-Chlorophenyl... | 0.715 | 0.673 | 0.638 | 0.581 | 0.573 | 0.569 | 0.542 | 0.613 | 10.33 |
| 62) | | 4-Nitroaniline | 0.278 | 0.276 | 0.282 | 0.270 | 0.267 | 0.270 | 0.254 | 0.271 | 3.45 |
| 63) | | Azobenzene | 1.460 | 1.373 | 1.319 | 1.219 | 1.200 | 1.190 | 1.122 | 1.269 | 9.38 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.080 | 0.100 | 0.110 | 0.112 | 0.116 | 0.113 | 0.105 | 12.60 |
| 66) | c | n-Nitrosodiphe... | 0.646 | 0.608 | 0.600 | 0.551 | 0.543 | 0.549 | 0.530 | 0.575 | 7.48 |
| 67) | | 4-Bromophenyl-... | 0.230 | 0.219 | 0.223 | 0.209 | 0.208 | 0.212 | 0.207 | 0.215 | 4.15 |
| 68) | | Hexachlorobenzene | 0.261 | 0.255 | 0.251 | 0.237 | 0.235 | 0.242 | 0.237 | 0.245 | 4.26 |
| 69) | | Atrazine | 0.204 | 0.189 | 0.155 | 0.156 | 0.127 | 0.138 | 0.133 | 0.157 | 18.48 |
| 70) | C | Pentachlorophenol | 0.105 | 0.121 | 0.133 | 0.138 | 0.139 | 0.144 | 0.142 | 0.132 | 10.59 |
| 71) | | Phenanthrene | 1.082 | 1.044 | 1.004 | 0.915 | 0.885 | 0.902 | 0.849 | 0.954 | 9.28 |
| 72) | | Anthracene | 1.071 | 1.014 | 0.984 | 0.894 | 0.881 | 0.876 | 0.832 | 0.936 | 9.34 |
| 73) | | Carbazole | 0.973 | 0.919 | 0.901 | 0.822 | 0.805 | 0.809 | 0.759 | 0.855 | 8.93 |
| 74) | | Di-n-butylphth... | 1.119 | 1.096 | 1.062 | 0.975 | 0.961 | 0.966 | 0.907 | 1.012 | 7.87 |
| 75) | C | Fluoranthene | 1.157 | 1.101 | 1.044 | 0.950 | 0.928 | 0.935 | 0.870 | 0.998 | 10.48 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.507 | 0.466 | 0.380 | 0.490 | 0.365 | 0.249 | 0.281 | 0.391 | 25.96 |
| 78) | | Pyrene | 1.851 | 1.733 | 1.728 | 1.590 | 1.572 | 1.596 | 1.490 | 1.651 | 7.49 |
| 79) | S | Terphenyl-d14 | 1.383 | 1.309 | 1.258 | 1.159 | 1.164 | 1.180 | 1.093 | 1.221 | 8.25 |
| 80) | | Butylbenzylpht... | 0.580 | 0.596 | 0.613 | 0.597 | 0.601 | 0.612 | 0.564 | 0.595 | 2.95 |
| 81) | | Benzo(a)anthra... | 1.386 | 1.344 | 1.345 | 1.232 | 1.232 | 1.254 | 1.193 | 1.284 | 5.71 |
| 82) | | 3,3'-Dichlorob... | 0.387 | 0.409 | 0.410 | 0.417 | 0.406 | 0.401 | 0.392 | 0.403 | 2.57 |
| 83) | | Chrysene | 1.320 | 1.264 | 1.206 | 1.154 | 1.177 | 1.180 | 1.113 | 1.202 | 5.81 |
| 84) | | Bis(2-ethylhex... | 0.868 | 0.858 | 0.858 | 0.819 | 0.825 | 0.830 | 0.775 | 0.833 | 3.82 |
| 85) | c | Di-n-octyl pht... | 1.201 | 1.234 | 1.283 | 1.267 | 1.265 | 1.291 | 1.240 | 1.254 | 2.52 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.107 | 1.110 | 1.213 | 1.195 | 1.172 | 1.230 | 1.191 | 1.174 | 4.11 |
| 88) | | Benzo(b)fluora... | 1.300 | 1.184 | 1.214 | 1.245 | 1.125 | 1.286 | 1.115 | 1.210 | 6.05 |
| 89) | | Benzo(k)fluora... | 1.214 | 1.230 | 1.206 | 1.027 | 1.085 | 0.975 | 1.034 | 1.110 | 9.46 |
| 90) | C | Benzo(a)pyrene | 1.023 | 0.999 | 1.022 | 0.993 | 0.975 | 1.006 | 0.964 | 0.997 | 2.23 |
| 91) | | Dibenzo(a,h)an... | 0.917 | 0.923 | 0.998 | 0.979 | 0.968 | 1.000 | 0.976 | 0.966 | 3.44 |
| 92) | | Benzo(g,h,i)pe... | 0.949 | 0.941 | 1.017 | 0.994 | 0.977 | 1.017 | 1.002 | 0.985 | 3.13 |

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_E Calibration Date/Time: 11/08/2024 10:07

Lab File ID: BE101544.D Init. Calib. Date(s): 11/06/2024 11/06/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:51 18:02

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Pyridine | 1.177 | 1.299 | | 10.4 | |
| 2-Fluorophenol | 1.131 | 1.156 | | 2.2 | |
| Phenol-d6 | 1.551 | 1.606 | | 3.5 | |
| 1,4-Dichlorobenzene | 1.482 | 1.484 | | 0.1 | 20.0 |
| 2-Methylphenol | 1.093 | 1.113 | | 1.8 | |
| 3+4-Methylphenols | 1.515 | 1.581 | | 4.4 | |
| Nitrobenzene-d5 | 0.317 | 0.329 | | 3.8 | |
| Hexachloroethane | 0.500 | 0.497 | | -0.6 | |
| Nitrobenzene | 0.329 | 0.344 | | 4.6 | |
| Hexachlorobutadiene | 0.198 | 0.190 | | -4.0 | 20.0 |
| 2,4,6-Trichlorophenol | 0.362 | 0.358 | | -1.1 | 20.0 |
| 2-Fluorobiphenyl | 1.225 | 1.192 | | -2.7 | |
| 2,4,5-Trichlorophenol | 0.403 | 0.404 | | 0.2 | |
| 2,4-Dinitrotoluene | 0.462 | 0.497 | | 7.6 | |
| 2,4,6-Tribromophenol | 0.376 | 0.380 | | 1.1 | |
| Hexachlorobenzene | 0.290 | 0.292 | | 0.7 | |
| Pentachlorophenol | 0.158 | 0.168 | | 6.3 | 20.0 |
| Terphenyl-d14 | 0.904 | 0.945 | | 4.5 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/08/2024 09:35

Lab File ID: BF140286.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Pyridine | 1.354 | 1.280 | | -5.5 | |
| 2-Fluorophenol | 1.207 | 1.151 | | -4.6 | |
| Phenol-d6 | 1.552 | 1.455 | | -6.3 | |
| 1,4-Dichlorobenzene | 1.492 | 1.440 | | -3.5 | 20.0 |
| 2-Methylphenol | 1.053 | 1.025 | | -2.7 | |
| 3+4-Methylphenols | 1.323 | 1.267 | | -4.2 | |
| Nitrobenzene-d5 | 0.402 | 0.378 | | -6.0 | |
| Hexachloroethane | 0.556 | 0.530 | | -4.7 | |
| Nitrobenzene | 0.422 | 0.398 | | -5.7 | |
| Hexachlorobutadiene | 0.229 | 0.225 | | -1.7 | 20.0 |
| 2,4,6-Trichlorophenol | 0.363 | 0.362 | | -0.3 | 20.0 |
| 2-Fluorobiphenyl | 1.253 | 1.125 | | -10.1 | |
| 2,4,5-Trichlorophenol | 0.381 | 0.388 | | 1.8 | |
| 2,4-Dinitrotoluene | 0.376 | 0.395 | | 5.1 | |
| 2,4,6-Tribromophenol | 0.198 | 0.223 | | 12.6 | |
| Hexachlorobenzene | 0.245 | 0.245 | | 0.0 | |
| Pentachlorophenol | 0.132 | 0.154 | | 16.7 | 20.0 |
| Terphenyl-d14 | 1.221 | 1.161 | | -4.9 | |

All other compounds must meet a minimum RRF of 0.010.

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/07/24 | 11/08/24 | |
| **P4722-04** | **WC-1(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP BNA | 8270E | | 11/07/24 | 11/08/24 | |
| **P4722-05** | **WC-1(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP BNA | 8270E | | 11/10/24 | 11/12/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/07/24 | 11/08/24 | |
| **P4722-08DL** | **WC-2(0-6)DL** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/07/24 | 11/14/24 | |
| **P4722-09** | **WC-2(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP BNA | 8270E | | 11/07/24 | 11/08/24 | |
| **P4722-10** | **WC-2(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP BNA | 8270E | | 11/10/24 | 11/14/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | SVOC-TCL BNA -20 | 8270E | | 11/07/24 | 11/07/24 | |
| **P4722-14** | **WC-3(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP BNA | 8270E | | 11/07/24 | 11/08/24 | |
| **P4722-15** | **WC-3(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP BNA | 8270E | | 11/10/24 | 11/14/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

| Sample ID | Client ID | | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : WC-2(0-6)** | | | | | | | | |
| P4722-10 | WC-2(0-6) | WATER | Pentachlorophenol | 9.800 | J | 1.9 | 10 | ug/L |
| P4722-10 | WC-2(0-6) | WATER | 2,3,4,6-Tetrachlorophenol | 2.200 | J | 0.79 | 5 | ug/L |
| | | | **Total Svoc :** | **12.00** | | | | |
| | | | **Total Concentration:** | **12.00** | | | | |

# SAMPLE DATA

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-05 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101578.D | 1 | 11/10/24 13:32 | 11/12/24 12:29 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 4.00 | UQ | 4.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 0.93 | U | 0.93 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 1.20 | U | 1.20 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 0.71 | U | 0.71 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.10 | U | 1.10 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1.40 | U | 1.40 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.20 | U | 1.20 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1.50 | U | 1.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 2.00 | U | 2.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 1.50 | U | 1.50 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 0.88 | U | 0.88 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 1.30 | U | 1.30 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 1.70 | U | 1.70 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.84 | U | 0.84 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 5.00 | UQ | 5.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.89 | U | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 1.00 | U | 1.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 0.91 | U | 0.91 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 0.97 | U | 0.97 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 1.40 | U | 1.40 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 0.93 | U | 0.93 | 5.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-05 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101578.D | 1 | 11/10/24 13:32 | 11/12/24 12:29 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 1.40 | U | 1.40 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 0.81 | U | 0.81 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 6.40 | U | 6.40 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 2.00 | U | 2.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 0.93 | U | 0.93 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.50 | U | 1.50 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 1.00 | U | 1.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.98 | U | 0.98 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 0.96 | U | 0.96 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 2.00 | U | 2.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3.10 | U | 3.10 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 0.89 | U | 0.89 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.95 | U | 0.95 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 1.30 | UQ | 1.30 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 1.90 | U | 1.90 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 0.89 | U | 0.89 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 1.20 | U | 1.20 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 1.50 | U | 1.50 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 2.10 | U | 2.10 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 1.30 | U | 1.30 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.94 | U | 0.94 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 0.86 | U | 0.86 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.90 | U | 1.90 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 2.50 | U | 2.50 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 1.10 | U | 1.10 | 5.00 | ug/L |

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-05 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101578.D | 1 | 11/10/24 13:32 | 11/12/24 12:29 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 1.70 | U | 1.70 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 1.30 | U | 1.30 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.79 | U | 0.79 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 67.2 | | 10 - 139 | 45% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 45.8 | | 10 - 134 | 31% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 93.7 | | 49 - 133 | 94% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 89.8 | | 52 - 132 | 90% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 152 | | 44 - 137 | 102% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 111 | | 48 - 125 | 111% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 37200 | 7.553 | | | |
| 1146-65-2 | Naphthalene-d8 | 175000 | 10.32 | | | |
| 15067-26-2 | Acenaphthene-d10 | 136000 | 14.163 | | | |
| 1517-22-2 | Phenanthrene-d10 | 334000 | 16.901 | | | |
| 1719-03-5 | Chrysene-d12 | 375000 | 21.06 | | | |
| 1520-96-3 | Perylene-d12 | 476000 | 23.346 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-10 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140368.D | 1 | 11/10/24 13:32 | 11/14/24 17:59 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 4.00 | UQ | 4.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 0.93 | U | 0.93 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 1.20 | U | 1.20 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 0.71 | U | 0.71 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.10 | U | 1.10 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1.40 | U | 1.40 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.20 | U | 1.20 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1.50 | U | 1.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 2.00 | U | 2.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 1.50 | U | 1.50 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 0.88 | U | 0.88 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 1.30 | U | 1.30 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 1.70 | U | 1.70 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.84 | U | 0.84 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 5.00 | UQ | 5.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.89 | U | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 1.00 | U | 1.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 0.91 | U | 0.91 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 0.97 | U | 0.97 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 1.40 | U | 1.40 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 0.93 | U | 0.93 | 5.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-10 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140368.D | 1 | 11/10/24 13:32 | 11/14/24 17:59 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 1.40 | U | 1.40 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 0.81 | U | 0.81 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 6.40 | U | 6.40 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 2.00 | U | 2.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 0.93 | U | 0.93 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.50 | U | 1.50 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 1.00 | U | 1.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.98 | U | 0.98 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 0.96 | U | 0.96 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 2.00 | U | 2.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3.10 | U | 3.10 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 0.89 | U | 0.89 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.95 | U | 0.95 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 1.30 | UQ | 1.30 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 9.80 | J | 1.90 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 0.89 | U | 0.89 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 1.20 | U | 1.20 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 1.50 | U | 1.50 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 2.10 | U | 2.10 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 1.30 | U | 1.30 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.94 | U | 0.94 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 0.86 | U | 0.86 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.90 | U | 1.90 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 2.50 | U | 2.50 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 1.10 | U | 1.10 | 5.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-10 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140368.D | 1 | 11/10/24 13:32 | 11/14/24 17:59 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 1.70 | U | 1.70 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 1.30 | U | 1.30 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 2.20 | J | 0.79 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 74.5 | | 10 - 139 | 50% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 47.7 | | 10 - 134 | 32% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 95.3 | | 49 - 133 | 95% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 90.7 | | 52 - 132 | 91% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 130 | | 44 - 137 | 86% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 98.7 | | 48 - 125 | 99% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 124000 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 465000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 252000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 460000 | 11.392 | | | |
| 1719-03-5 | Chrysene-d12 | 260000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 261000 | 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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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140369.D | 1 | 11/10/24 13:32 | 11/14/24 18:25 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 4.00 | UQ | 4.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 0.93 | U | 0.93 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 1.20 | U | 1.20 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 0.71 | U | 0.71 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.10 | U | 1.10 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1.40 | U | 1.40 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.20 | U | 1.20 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1.50 | U | 1.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 2.00 | U | 2.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 1.50 | U | 1.50 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 0.88 | U | 0.88 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 1.30 | U | 1.30 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 1.70 | U | 1.70 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.84 | U | 0.84 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 5.00 | UQ | 5.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.89 | U | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 1.00 | U | 1.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 0.91 | U | 0.91 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 0.97 | U | 0.97 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 1.40 | U | 1.40 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 0.93 | U | 0.93 | 5.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140369.D | 1 | 11/10/24 13:32 | 11/14/24 18:25 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 1.40 | U | 1.40 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 0.81 | U | 0.81 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 6.40 | U | 6.40 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 2.00 | U | 2.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 0.93 | U | 0.93 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.50 | U | 1.50 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 1.00 | U | 1.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.98 | U | 0.98 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 0.96 | U | 0.96 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 2.00 | U | 2.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3.10 | U | 3.10 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 0.89 | U | 0.89 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.95 | U | 0.95 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 1.30 | UQ | 1.30 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 1.90 | U | 1.90 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 0.89 | U | 0.89 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 1.20 | U | 1.20 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 1.50 | U | 1.50 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 2.10 | U | 2.10 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 1.30 | U | 1.30 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.94 | U | 0.94 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 0.86 | U | 0.86 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.90 | U | 1.90 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 2.50 | U | 2.50 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 1.10 | U | 1.10 | 5.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15 | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140369.D | 1 | 11/10/24 13:32 | 11/14/24 18:25 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 1.70 | U | 1.70 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 1.30 | U | 1.30 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.79 | U | 0.79 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 66.4 | | 10 - 139 | 44% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 41.5 | | 10 - 134 | 28% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 94.1 | | 49 - 133 | 94% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 94.4 | | 52 - 132 | 94% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 141 | | 44 - 137 | 94% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 111 | | 48 - 125 | 111% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 119000 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 442000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 232000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 430000 | 11.392 | | | |
| 1719-03-5 | Chrysene-d12 | 233000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 242000 | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/10/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/10/24 |
| Client Sample ID: | PB164886TB | SDG No.: | P4722 |
| Lab Sample ID: | PB164886TB | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140599.D | 1 | 11/10/24 13:32 | 11/25/24 13:27 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 4.00 | UQ | 4.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 0.93 | U | 0.93 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 1.20 | U | 1.20 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 0.71 | U | 0.71 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.10 | U | 1.10 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1.40 | U | 1.40 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.20 | U | 1.20 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1.50 | U | 1.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 2.00 | U | 2.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 1.50 | U | 1.50 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 0.88 | U | 0.88 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 1.30 | U | 1.30 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 1.70 | U | 1.70 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.84 | U | 0.84 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 5.00 | UQ | 5.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.89 | U | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 1.00 | U | 1.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 0.91 | U | 0.91 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 0.97 | U | 0.97 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 1.40 | U | 1.40 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 0.93 | U | 0.93 | 5.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/10/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/10/24 |
| Client Sample ID: | PB164886TB | SDG No.: | P4722 |
| Lab Sample ID: | PB164886TB | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140599.D | 1 | 11/10/24 13:32 | 11/25/24 13:27 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 1.40 | U | 1.40 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 0.81 | U | 0.81 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 6.40 | U | 6.40 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 2.00 | U | 2.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 0.93 | U | 0.93 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.50 | U | 1.50 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 1.00 | U | 1.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.98 | U | 0.98 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 0.96 | U | 0.96 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 2.00 | U | 2.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3.10 | U | 3.10 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 0.89 | U | 0.89 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.95 | U | 0.95 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 1.30 | UQ | 1.30 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 1.90 | U | 1.90 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 0.89 | U | 0.89 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 1.20 | U | 1.20 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 1.50 | U | 1.50 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 2.10 | U | 2.10 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 1.30 | U | 1.30 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.94 | U | 0.94 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 0.86 | U | 0.86 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.90 | U | 1.90 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 2.50 | U | 2.50 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 1.10 | U | 1.10 | 5.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/10/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/10/24 |
| Client Sample ID: | PB164886TB | SDG No.: | P4722 |
| Lab Sample ID: | PB164886TB | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140599.D | 1 | 11/10/24 13:32 | 11/25/24 13:27 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 1.70 | U | 1.70 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 1.30 | U | 1.30 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.79 | U | 0.79 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 138 | | 10 - 139 | 92% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 134 | | 10 - 134 | 90% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 91.7 | | 49 - 133 | 92% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 89.3 | | 52 - 132 | 89% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 129 | | 44 - 137 | 86% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 99.1 | | 48 - 125 | 99% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 105000 | 6.869 | | | |
| 1146-65-2 | Naphthalene-d8 | 404000 | 8.151 | | | |
| 15067-26-2 | Acenaphthene-d10 | 233000 | 9.904 | | | |
| 1517-22-2 | Phenanthrene-d10 | 439000 | 11.398 | | | |
| 1719-03-5 | Chrysene-d12 | 241000 | 14.051 | | | |
| 1520-96-3 | Perylene-d12 | 200000 | 15.563 | | | |

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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Fax : 908 789 8922

# Surrogate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| P4722-05 | WC-1(0-6) | 2-Fluorophenol | 150 | 67.2 | 45 | | 10 | 139 |
| | | Phenol-d6 | 150 | 45.8 | 31 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 93.7 | 94 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 89.8 | 90 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 152 | 102 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 111 | 111 | | 48 | 125 |
| P4722-10 | WC-2(0-6) | 2-Fluorophenol | 150 | 74.5 | 50 | | 10 | 139 |
| | | Phenol-d6 | 150 | 47.7 | 32 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 95.3 | 95 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 90.7 | 91 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 130 | 86 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 98.7 | 99 | | 48 | 125 |
| P4722-15 | WC-3(0-6) | 2-Fluorophenol | 150 | 66.4 | 44 | | 10 | 139 |
| | | Phenol-d6 | 150 | 41.5 | 28 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 94.1 | 94 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 94.4 | 94 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 141 | 94 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 111 | 111 | | 48 | 125 |
| P4722-15MS | WC-3(0-6)MS | 2-Fluorophenol | 150 | 68.4 | 46 | | 10 | 139 |
| | | Phenol-d6 | 150 | 41.5 | 28 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 87.1 | 87 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 87.7 | 88 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 129 | 86 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 98.2 | 98 | | 48 | 125 |
| P4722-15MSD | WC-3(0-6)MSD | 2-Fluorophenol | 150 | 67.3 | 45 | | 10 | 139 |
| | | Phenol-d6 | 150 | 41.0 | 27 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 88.0 | 88 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 88.5 | 89 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 135 | 90 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 97.3 | 97 | | 48 | 125 |
| PB164886BL | PB164886BL | 2-Fluorophenol | 150 | 153 | 102 | | 10 | 139 |
| | | Phenol-d6 | 150 | 135 | 90 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 98.0 | 98 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 103 | 103 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 125 | 83 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 99.2 | 99 | | 48 | 125 |
| PB164886BS | PB164886BS | 2-Fluorophenol | 150 | 123 | 82 | | 10 | 139 |
| | | Phenol-d6 | 150 | 118 | 78 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 84.1 | 84 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 82.2 | 82 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 130 | 87 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 93.2 | 93 | | 48 | 125 |
| PB164886TB | PB164886TB | 2-Fluorophenol | 150 | 138 | 92 | | 10 | 139 |
| | | Phenol-d6 | 150 | 134 | 90 | | 10 | 134 |
| | | Nitrobenzene-d5 | 100 | 91.7 | 92 | | 49 | 133 |
| | | 2-Fluorobiphenyl | 100 | 89.3 | 89 | | 52 | 132 |
| | | 2,4,6-Tribromophenol | 150 | 129 | 86 | | 44 | 137 |
| | | Terphenyl-d14 | 100 | 99.1 | 99 | | 48 | 125 |

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Fax : 908 789 8922

## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4722-15MS** | | **Client Sample ID: WC-3(0-6)MS** | | | | | | **DataFile: BE101581.D** | | | |
| Benzaldehyde | 50 | 0 | 7.60 | ug/L | 15 | | | | 10 | 137 | |
| Phenol | 50 | 0 | 17.5 | ug/L | 35 | | | | 10 | 130 | |
| bis(2-Chloroethyl)ether | 50 | 0 | 41.5 | ug/L | 83 | | | | 29 | 141 | |
| 2-Chlorophenol | 50 | 0 | 37.7 | ug/L | 75 | | | | 23 | 127 | |
| 2-Methylphenol | 50 | 0 | 34.4 | ug/L | 69 | | | | 37 | 126 | |
| 2,2-oxybis(1-Chloropropane) | 50 | 0 | 45.4 | ug/L | 91 | | | | 36 | 141 | |
| Acetophenone | 50 | 0 | 42.0 | ug/L | 84 | | | | 31 | 164 | |
| 3+4-Methylphenols | 50 | 0 | 30.4 | ug/L | 61 | | | | 31 | 127 | |
| N-Nitroso-di-n-propylamine | 50 | 0 | 46.1 | ug/L | 92 | | | | 36 | 147 | |
| Hexachloroethane | 50 | 0 | 24.2 | ug/L | 48 | * | | | 49 | 110 | |
| Nitrobenzene | 50 | 0 | 41.0 | ug/L | 82 | | | | 62 | 112 | |
| Isophorone | 50 | 0 | 44.1 | ug/L | 88 | | | | 39 | 146 | |
| 2-Nitrophenol | 50 | 0 | 41.0 | ug/L | 82 | | | | 30 | 148 | |
| 2,4-Dimethylphenol | 50 | 0 | 49.7 | ug/L | 99 | | | | 17 | 143 | |
| bis(2-Chloroethoxy)methane | 50 | 0 | 43.7 | ug/L | 87 | | | | 39 | 143 | |
| 2,4-Dichlorophenol | 50 | 0 | 41.6 | ug/L | 83 | | | | 22 | 146 | |
| Naphthalene | 50 | 0 | 36.6 | ug/L | 73 | | | | 17 | 157 | |
| 4-Chloroaniline | 50 | 0 | 21.1 | ug/L | 42 | | | | 10 | 95 | |
| Hexachlorobutadiene | 50 | 0 | 26.9 | ug/L | 54 | | | | 52 | 125 | |
| Caprolactam | 50 | 0 | 7.40 | ug/L | 15 | | | | 10 | 130 | |
| 4-Chloro-3-methylphenol | 50 | 0 | 39.7 | ug/L | 79 | | | | 17 | 148 | |
| 2-Methylnaphthalene | 50 | 0 | 41.1 | ug/L | 82 | | | | 38 | 146 | |
| Hexachlorocyclopentadiene | 100 | 0 | 120 | ug/L | 120 | | | | 20 | 153 | |
| 2,4,6-Trichlorophenol | 50 | 0 | 44.0 | ug/L | 88 | | | | 78 | 112 | |
| 2,4,5-Trichlorophenol | 50 | 0 | 42.6 | ug/L | 85 | | | | 71 | 111 | |
| 1,1-Biphenyl | 50 | 0 | 42.4 | ug/L | 85 | | | | 38 | 154 | |
| 2-Chloronaphthalene | 50 | 0 | 40.8 | ug/L | 82 | | | | 41 | 145 | |
| 2-Nitroaniline | 50 | 0 | 48.3 | ug/L | 97 | | | | 39 | 151 | |
| Dimethylphthalate | 50 | 0 | 45.8 | ug/L | 92 | | | | 42 | 147 | |
| Acenaphthylene | 50 | 0 | 46.3 | ug/L | 93 | | | | 40 | 141 | |
| 2,6-Dinitrotoluene | 50 | 0 | 43.0 | ug/L | 86 | | | | 43 | 148 | |
| 3-Nitroaniline | 50 | 0 | 27.5 | ug/L | 55 | | | | 10 | 111 | |
| Acenaphthene | 50 | 0 | 45.1 | ug/L | 90 | | | | 37 | 146 | |
| 2,4-Dinitrophenol | 100 | 0 | 96.6 | ug/L | 97 | | | | 14 | 167 | |
| 4-Nitrophenol | 100 | 0 | 36.6 | ug/L | 37 | | | | 10 | 130 | |
| Dibenzofuran | 50 | 0 | 45.2 | ug/L | 90 | | | | 41 | 145 | |
| 2,4-Dinitrotoluene | 50 | 0 | 45.7 | ug/L | 91 | | | | 50 | 142 | |
| Diethylphthalate | 50 | 0 | 46.8 | ug/L | 94 | | | | 41 | 148 | |
| 4-Chlorophenyl-phenylether | 50 | 0 | 44.7 | ug/L | 89 | | | | 38 | 149 | |
| Fluorene | 50 | 0 | 46.1 | ug/L | 92 | | | | 39 | 144 | |
| 4-Nitroaniline | 50 | 0 | 43.9 | ug/L | 88 | | | | 27 | 138 | |
| 4,6-Dinitro-2-methylphenol | 50 | 0 | 47.1 | ug/L | 94 | | | | 32 | 175 | |
| N-Nitrosodiphenylamine | 50 | 0 | 46.5 | ug/L | 93 | | | | 40 | 150 | |
| 4-Bromophenyl-phenylether | 50 | 0 | 44.6 | ug/L | 89 | | | | 42 | 151 | |
| Hexachlorobenzene | 50 | 0 | 43.5 | ug/L | 87 | | | | 72 | 115 | |
| Atrazine | 50 | 0 | 60.6 | ug/L | 121 | | | | 20 | 162 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 100 | 0 | 89.1 | ug/L | 89 | | | | 25 | 139 | |
| Phenanthrene | 50 | 0 | 48.0 | ug/L | 96 | | | | 40 | 147 | |
| Anthracene | 50 | 0 | 50.0 | ug/L | 100 | | | | 41 | 146 | |
| Carbazole | 50 | 0 | 46.8 | ug/L | 94 | | | | 37 | 154 | |
| Di-n-butylphthalate | 50 | 0 | 48.6 | ug/L | 97 | | | | 40 | 151 | |
| Fluoranthene | 50 | 0 | 46.5 | ug/L | 93 | | | | 42 | 146 | |
| Pyrene | 50 | 0 | 46.9 | ug/L | 94 | | | | 41 | 149 | |
| Butylbenzylphthalate | 50 | 0 | 48.5 | ug/L | 97 | | | | 39 | 155 | |
| 3,3-Dichlorobenzidine | 50 | 0 | 33.6 | ug/L | 67 | | | | 10 | 114 | |
| Benzo(a)anthracene | 50 | 0 | 47.8 | ug/L | 96 | | | | 41 | 147 | |
| Chrysene | 50 | 0 | 48.0 | ug/L | 96 | | | | 44 | 144 | |
| bis(2-Ethylhexyl)phthalate | 50 | 0 | 49.1 | ug/L | 98 | | | | 33 | 160 | |
| Di-n-octyl phthalate | 50 | 0 | 49.6 | ug/L | 99 | | | | 36 | 158 | |
| Benzo(b)fluoranthene | 50 | 0 | 45.4 | ug/L | 91 | | | | 40 | 150 | |
| Benzo(k)fluoranthene | 50 | 0 | 48.8 | ug/L | 98 | | | | 40 | 147 | |
| Benzo(a)pyrene | 50 | 0 | 49.3 | ug/L | 99 | | | | 42 | 147 | |
| Indeno(1,2,3-cd)pyrene | 50 | 0 | 48.2 | ug/L | 96 | | | | 30 | 166 | |
| Dibenz(a,h)anthracene | 50 | 0 | 48.4 | ug/L | 97 | | | | 23 | 172 | |
| Benzo(g,h,i)perylene | 50 | 0 | 42.8 | ug/L | 86 | | | | 27 | 167 | |
| 1,2,4,5-Tetrachlorobenzene | 50 | 0 | 39.5 | ug/L | 79 | * | | | 89 | 102 | |
| 1,4-Dioxane | 50 | 0 | 18.0 | ug/L | 36 | * | | | 38 | 130 | |
| 2,3,4,6-Tetrachlorophenol | 50 | 0 | 45.3 | ug/L | 91 | | | | 91 | 111 | |

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Fax : 908 789 8922

## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: P4722-15MSD** | | **Client Sample ID: WC-3(0-6)MSD** | | | | | | **DataFile: BE101582.D** | | | |
| Benzaldehyde | 50 | 0 | 7.50 | ug/L | 15 | 0 | | | 10 | 137 | 20 |
| Phenol | 50 | 0 | 16.8 | ug/L | 34 | 3 | | | 10 | 130 | 20 |
| bis(2-Chloroethyl)ether | 50 | 0 | 40.1 | ug/L | 80 | 4 | | | 29 | 141 | 20 |
| 2-Chlorophenol | 50 | 0 | 36.5 | ug/L | 73 | 3 | | | 23 | 127 | 20 |
| 2-Methylphenol | 50 | 0 | 32.7 | ug/L | 65 | 6 | | | 37 | 126 | 20 |
| 2,2-oxybis(1-Chloropropane) | 50 | 0 | 44.5 | ug/L | 89 | 2 | | | 36 | 141 | 20 |
| Acetophenone | 50 | 0 | 41.6 | ug/L | 83 | 1 | | | 31 | 164 | 20 |
| 3+4-Methylphenols | 50 | 0 | 28.9 | ug/L | 58 | 5 | | | 31 | 127 | 20 |
| N-Nitroso-di-n-propylamine | 50 | 0 | 44.3 | ug/L | 89 | 3 | | | 36 | 147 | 20 |
| Hexachloroethane | 50 | 0 | 24.4 | ug/L | 49 | 2 | | | 49 | 110 | 20 |
| Nitrobenzene | 50 | 0 | 41.2 | ug/L | 82 | 0 | | | 62 | 112 | 20 |
| Isophorone | 50 | 0 | 44.0 | ug/L | 88 | 0 | | | 39 | 146 | 20 |
| 2-Nitrophenol | 50 | 0 | 41.2 | ug/L | 82 | 0 | | | 30 | 148 | 20 |
| 2,4-Dimethylphenol | 50 | 0 | 49.2 | ug/L | 98 | 1 | | | 17 | 143 | 20 |
| bis(2-Chloroethoxy)methane | 50 | 0 | 43.5 | ug/L | 87 | 0 | | | 39 | 143 | 20 |
| 2,4-Dichlorophenol | 50 | 0 | 41.2 | ug/L | 82 | 1 | | | 22 | 146 | 20 |
| Naphthalene | 50 | 0 | 37.0 | ug/L | 74 | 1 | | | 17 | 157 | 20 |
| 4-Chloroaniline | 50 | 0 | 19.8 | ug/L | 40 | 5 | | | 10 | 95 | 20 |
| Hexachlorobutadiene | 50 | 0 | 27.6 | ug/L | 55 | 2 | | | 52 | 125 | 20 |
| Caprolactam | 50 | 0 | 7.20 | ug/L | 14 | 7 | | | 10 | 130 | 20 |
| 4-Chloro-3-methylphenol | 50 | 0 | 39.4 | ug/L | 79 | 0 | | | 17 | 148 | 20 |
| 2-Methylnaphthalene | 50 | 0 | 41.1 | ug/L | 82 | 0 | | | 38 | 146 | 20 |
| Hexachlorocyclopentadiene | 100 | 0 | 130 | ug/L | 130 | 8 | | | 20 | 153 | 20 |
| 2,4,6-Trichlorophenol | 50 | 0 | 44.2 | ug/L | 88 | 0 | | | 78 | 112 | 20 |
| 2,4,5-Trichlorophenol | 50 | 0 | 43.4 | ug/L | 87 | 2 | | | 71 | 111 | 20 |
| 1,1-Biphenyl | 50 | 0 | 42.8 | ug/L | 86 | 1 | | | 38 | 154 | 20 |
| 2-Chloronaphthalene | 50 | 0 | 41.0 | ug/L | 82 | 0 | | | 41 | 145 | 20 |
| 2-Nitroaniline | 50 | 0 | 48.4 | ug/L | 97 | 0 | | | 39 | 151 | 20 |
| Dimethylphthalate | 50 | 0 | 46.0 | ug/L | 92 | 0 | | | 42 | 147 | 20 |
| Acenaphthylene | 50 | 0 | 47.0 | ug/L | 94 | 1 | | | 40 | 141 | 20 |
| 2,6-Dinitrotoluene | 50 | 0 | 43.7 | ug/L | 87 | 1 | | | 43 | 148 | 20 |
| 3-Nitroaniline | 50 | 0 | 27.3 | ug/L | 55 | 0 | | | 10 | 111 | 20 |
| Acenaphthene | 50 | 0 | 45.4 | ug/L | 91 | 1 | | | 37 | 146 | 20 |
| 2,4-Dinitrophenol | 100 | 0 | 97.8 | ug/L | 98 | 1 | | | 14 | 167 | 20 |
| 4-Nitrophenol | 100 | 0 | 38.6 | ug/L | 39 | 5 | | | 10 | 130 | 20 |
| Dibenzofuran | 50 | 0 | 47.2 | ug/L | 94 | 4 | | | 41 | 145 | 20 |
| 2,4-Dinitrotoluene | 50 | 0 | 47.3 | ug/L | 95 | 4 | | | 50 | 142 | 20 |
| Diethylphthalate | 50 | 0 | 47.8 | ug/L | 96 | 2 | | | 41 | 148 | 20 |
| 4-Chlorophenyl-phenylether | 50 | 0 | 46.1 | ug/L | 92 | 3 | | | 38 | 149 | 20 |
| Fluorene | 50 | 0 | 48.1 | ug/L | 96 | 4 | | | 39 | 144 | 20 |
| 4-Nitroaniline | 50 | 0 | 45.4 | ug/L | 91 | 3 | | | 27 | 138 | 20 |
| 4,6-Dinitro-2-methylphenol | 50 | 0 | 47.5 | ug/L | 95 | 1 | | | 32 | 175 | 20 |
| N-Nitrosodiphenylamine | 50 | 0 | 47.1 | ug/L | 94 | 1 | | | 40 | 150 | 20 |
| 4-Bromophenyl-phenylether | 50 | 0 | 45.2 | ug/L | 90 | 1 | | | 42 | 151 | 20 |
| Hexachlorobenzene | 50 | 0 | 44.3 | ug/L | 89 | 2 | | | 72 | 115 | 20 |
| Atrazine | 50 | 0 | 60.2 | ug/L | 120 | 1 | | | 20 | 162 | 20 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 100 | 0 | 91.2 | ug/L | 91 | | 2 | | 25 | 139 | 20 |
| Phenanthrene | 50 | 0 | 48.1 | ug/L | 96 | | 0 | | 40 | 147 | 20 |
| Anthracene | 50 | 0 | 49.1 | ug/L | 98 | | 2 | | 41 | 146 | 20 |
| Carbazole | 50 | 0 | 46.4 | ug/L | 93 | | 1 | | 37 | 154 | 20 |
| Di-n-butylphthalate | 50 | 0 | 48.6 | ug/L | 97 | | 0 | | 40 | 151 | 20 |
| Fluoranthene | 50 | 0 | 45.6 | ug/L | 91 | | 2 | | 42 | 146 | 20 |
| Pyrene | 50 | 0 | 47.4 | ug/L | 95 | | 1 | | 41 | 149 | 20 |
| Butylbenzylphthalate | 50 | 0 | 49.4 | ug/L | 99 | | 2 | | 39 | 155 | 20 |
| 3,3-Dichlorobenzidine | 50 | 0 | 34.1 | ug/L | 68 | | 1 | | 10 | 114 | 20 |
| Benzo(a)anthracene | 50 | 0 | 48.2 | ug/L | 96 | | 0 | | 41 | 147 | 20 |
| Chrysene | 50 | 0 | 47.8 | ug/L | 96 | | 0 | | 44 | 144 | 20 |
| bis(2-Ethylhexyl)phthalate | 50 | 0 | 47.8 | ug/L | 96 | | 2 | | 33 | 160 | 20 |
| Di-n-octyl phthalate | 50 | 0 | 48.4 | ug/L | 97 | | 2 | | 36 | 158 | 20 |
| Benzo(b)fluoranthene | 50 | 0 | 47.0 | ug/L | 94 | | 3 | | 40 | 150 | 20 |
| Benzo(k)fluoranthene | 50 | 0 | 52.1 | ug/L | 104 | | 6 | | 40 | 147 | 20 |
| Benzo(a)pyrene | 50 | 0 | 49.6 | ug/L | 99 | | 0 | | 42 | 147 | 20 |
| Indeno(1,2,3-cd)pyrene | 50 | 0 | 49.1 | ug/L | 98 | | 2 | | 30 | 166 | 20 |
| Dibenz(a,h)anthracene | 50 | 0 | 49.2 | ug/L | 98 | | 1 | | 23 | 172 | 20 |
| Benzo(g,h,i)perylene | 50 | 0 | 43.9 | ug/L | 88 | | 2 | | 27 | 167 | 20 |
| 1,2,4,5-Tetrachlorobenzene | 50 | 0 | 40.1 | ug/L | 80 | * | 1 | | 89 | 102 | 20 |
| 1,4-Dioxane | 50 | 0 | 17.6 | ug/L | 35 | * | 3 | | 38 | 130 | 20 |
| 2,3,4,6-Tetrachlorophenol | 50 | 0 | 47.8 | ug/L | 96 | | 5 | | 91 | 111 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8270E **DataFile:** BF140394.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164886BS | Benzaldehyde | 50 | 0 | ug/L | 0 | | * | | 10 | 162 | |
| | Phenol | 50 | 40.9 | ug/L | 82 | | | | 66 | 118 | |
| | bis(2-Chloroethyl)ether | 50 | 43.2 | ug/L | 86 | | | | 62 | 103 | |
| | 2-Chlorophenol | 50 | 44.2 | ug/L | 88 | | | | 70 | 117 | |
| | 2-Methylphenol | 50 | 42.1 | ug/L | 84 | | | | 69 | 109 | |
| | 2,2-oxybis(1-Chloropropane) | 50 | 41.0 | ug/L | 82 | | | | 65 | 100 | |
| | Acetophenone | 50 | 41.8 | ug/L | 84 | | | | 60 | 104 | |
| | 3+4-Methylphenols | 50 | 42.5 | ug/L | 85 | | | | 67 | 106 | |
| | N-Nitroso-di-n-propylamine | 50 | 41.1 | ug/L | 82 | | | | 57 | 107 | |
| | Hexachloroethane | 50 | 42.0 | ug/L | 84 | | | | 76 | 118 | |
| | Nitrobenzene | 50 | 40.3 | ug/L | 81 | | | | 58 | 106 | |
| | Isophorone | 50 | 41.5 | ug/L | 83 | | | | 61 | 102 | |
| | 2-Nitrophenol | 50 | 43.7 | ug/L | 87 | | | | 70 | 115 | |
| | 2,4-Dimethylphenol | 50 | 50.9 | ug/L | 102 | | | | 42 | 142 | |
| | bis(2-Chloroethoxy)methane | 50 | 40.8 | ug/L | 82 | | | | 58 | 109 | |
| | 2,4-Dichlorophenol | 50 | 42.7 | ug/L | 85 | | | | 66 | 115 | |
| | Naphthalene | 50 | 41.2 | ug/L | 82 | | | | 64 | 107 | |
| | 4-Chloroaniline | 50 | 31.3 | ug/L | 63 | | | | 10 | 85 | |
| | Hexachlorobutadiene | 50 | 40.5 | ug/L | 81 | | | | 69 | 101 | |
| | Caprolactam | 50 | 44.2 | ug/L | 88 | | | | 58 | 128 | |
| | 4-Chloro-3-methylphenol | 50 | 42.7 | ug/L | 85 | | | | 65 | 114 | |
| | 2-Methylnaphthalene | 50 | 41.5 | ug/L | 83 | | | | 64 | 107 | |
| | Hexachlorocyclopentadiene | 100 | 170 | ug/L | 170 | | * | | 36 | 160 | |
| | 2,4,6-Trichlorophenol | 50 | 43.0 | ug/L | 86 | | | | 61 | 110 | |
| | 2,4,5-Trichlorophenol | 50 | 42.3 | ug/L | 85 | | | | 70 | 106 | |
| | 1,1-Biphenyl | 50 | 41.2 | ug/L | 82 | | | | 72 | 98 | |
| | 2-Chloronaphthalene | 50 | 41.0 | ug/L | 82 | | | | 59 | 106 | |
| | 2-Nitroaniline | 50 | 44.4 | ug/L | 89 | | | | 73 | 114 | |
| | Dimethylphthalate | 50 | 42.8 | ug/L | 86 | | | | 64 | 103 | |
| | Acenaphthylene | 50 | 45.0 | ug/L | 90 | | | | 79 | 103 | |
| | 2,6-Dinitrotoluene | 50 | 41.5 | ug/L | 83 | | | | 64 | 110 | |
| | 3-Nitroaniline | 50 | 33.0 | ug/L | 66 | | | | 28 | 100 | |
| | Acenaphthene | 50 | 48.4 | ug/L | 97 | | | | 59 | 113 | |
| | 2,4-Dinitrophenol | 100 | 96.7 | ug/L | 97 | | | | 36 | 166 | |
| | 4-Nitrophenol | 100 | 89.1 | ug/L | 89 | | | | 45 | 147 | |
| | Dibenzofuran | 50 | 43.3 | ug/L | 87 | | | | 65 | 106 | |
| | 2,4-Dinitrotoluene | 50 | 44.1 | ug/L | 88 | | | | 60 | 115 | |
| | Diethylphthalate | 50 | 42.3 | ug/L | 85 | | | | 63 | 105 | |
| | 4-Chlorophenyl-phenylether | 50 | 41.5 | ug/L | 83 | | | | 61 | 104 | |
| | Fluorene | 50 | 42.1 | ug/L | 84 | | | | 64 | 107 | |
| | 4-Nitroaniline | 50 | 43.7 | ug/L | 87 | | | | 55 | 125 | |
| | 4,6-Dinitro-2-methylphenol | 50 | 49.0 | ug/L | 98 | | | | 62 | 132 | |
| | N-Nitrosodiphenylamine | 50 | 43.7 | ug/L | 87 | | | | 61 | 109 | |
| | 4-Bromophenyl-phenylether | 50 | 42.1 | ug/L | 84 | | | | 73 | 103 | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8270E **DataFile:** BF140394.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164886BS | Hexachlorobenzene | 50 | 42.3 | ug/L | 85 | | | | 73 | 106 | |
| | Atrazine | 50 | 35.1 | ug/L | 70 | | * | | 76 | 120 | |
| | Pentachlorophenol | 100 | 83.4 | ug/L | 83 | | | | 47 | 114 | |
| | Phenanthrene | 50 | 43.7 | ug/L | 87 | | | | 62 | 109 | |
| | Anthracene | 50 | 45.3 | ug/L | 91 | | | | 65 | 110 | |
| | Carbazole | 50 | 43.0 | ug/L | 86 | | | | 62 | 106 | |
| | Di-n-butylphthalate | 50 | 41.4 | ug/L | 83 | | | | 64 | 106 | |
| | Fluoranthene | 50 | 42.0 | ug/L | 84 | | | | 64 | 110 | |
| | Pyrene | 50 | 46.1 | ug/L | 92 | | | | 71 | 103 | |
| | Butylbenzylphthalate | 50 | 46.2 | ug/L | 92 | | | | 61 | 105 | |
| | 3,3-Dichlorobenzidine | 50 | 38.3 | ug/L | 77 | | | | 43 | 108 | |
| | Benzo(a)anthracene | 50 | 45.8 | ug/L | 92 | | | | 62 | 107 | |
| | Chrysene | 50 | 45.0 | ug/L | 90 | | | | 61 | 108 | |
| | bis(2-Ethylhexyl)phthalate | 50 | 44.4 | ug/L | 89 | | | | 59 | 110 | |
| | Di-n-octyl phthalate | 50 | 43.7 | ug/L | 87 | | | | 52 | 139 | |
| | Benzo(b)fluoranthene | 50 | 38.5 | ug/L | 77 | | | | 77 | 113 | |
| | Benzo(k)fluoranthene | 50 | 46.7 | ug/L | 93 | | | | 77 | 105 | |
| | Benzo(a)pyrene | 50 | 46.7 | ug/L | 93 | | | | 72 | 131 | |
| | Indeno(1,2,3-cd)pyrene | 50 | 46.0 | ug/L | 92 | | | | 72 | 105 | |
| | Dibenz(a,h)anthracene | 50 | 45.3 | ug/L | 91 | | | | 78 | 115 | |
| | Benzo(g,h,i)perylene | 50 | 41.5 | ug/L | 83 | | | | 75 | 118 | |
| | 1,2,4,5-Tetrachlorobenzene | 50 | 41.9 | ug/L | 84 | | | | 72 | 101 | |
| | 1,4-Dioxane | 50 | 36.8 | ug/L | 74 | | | | 38 | 125 | |
| | 2,3,4,6-Tetrachlorophenol | 50 | 46.8 | ug/L | 94 | | | | 63 | 116 | |

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164886BL

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab File ID: BE101576.D Lab Sample ID: PB164886BL

Instrument ID: BNA_E Date Extracted: 11/10/2024

Matrix: (soil/water) Water Date Analyzed: 11/12/2024

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| WC-3(0-6)MSD | P4722-15MSD | BE101582.D | 11/12/2024 |
| WC-2(0-6) | P4722-10 | BF140368.D | 11/14/2024 |
| WC-3(0-6) | P4722-15 | BF140369.D | 11/14/2024 |
| PB164886BS | PB164886BS | BF140394.D | 11/15/2024 |
| PB164886TB | PB164886TB | BF140599.D | 11/25/2024 |
| WC-1(0-6) | P4722-05 | BE101578.D | 11/12/2024 |
| WC-3(0-6)MS | P4722-15MS | BE101581.D | 11/12/2024 |

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BE101491.D DFTPP Injection Date: 11/06/2024

Instrument ID: BNA_E DFTPP Injection Time: 11:40

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 14.8 |
| 68 | Less than 2.0% of mass 69 | 0.2 ( 1.3 ) 1 |
| 69 | Mass 69 relative abundance | 16 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.4 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 23.5 |
| 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 | 3.6 |
| 275 | 10.0 - 60.0% of mass 198 | 18.3 |
| 365 | Greater than 1% of mass 198 | 2.9 |
| 441 | Present, but less than mass 443 | 16.4 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.6 (19.6) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BE101493.D | 11/06/2024 | 13:51 |
| SSTDICC005 | SSTDICC005 | BE101494.D | 11/06/2024 | 14:27 |
| SSTDICC010 | SSTDICC010 | BE101495.D | 11/06/2024 | 15:03 |
| SSTDICC020 | SSTDICC020 | BE101496.D | 11/06/2024 | 15:39 |
| SSTDICCC040 | SSTDICCC040 | BE101497.D | 11/06/2024 | 16:14 |
| SSTDICC050 | SSTDICC050 | BE101498.D | 11/06/2024 | 16:50 |
| SSTDICC060 | SSTDICC060 | BE101499.D | 11/06/2024 | 17:26 |
| SSTDICC080 | SSTDICC080 | BE101500.D | 11/06/2024 | 18:02 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BE101574.D DFTPP Injection Date: 11/12/2024

Instrument ID: BNA_E DFTPP Injection Time: 09:33

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 14.7 |
| 68 | Less than 2.0% of mass 69 | 0.3 ( 1.7 ) 1 |
| 69 | Mass 69 relative abundance | 15.6 |
| 70 | Less than 2.0% of mass 69 | 0.1 ( 0.5 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 22.6 |
| 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 | 3.5 |
| 275 | 10.0 - 60.0% of mass 198 | 18 |
| 365 | Greater than 1% of mass 198 | 3 |
| 441 | Present, but less than mass 443 | 16.2 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 19.4 (19.4) 2 |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BE101575.D | 11/12/2024 | 10:18 |
| PB164886BL | PB164886BL | BE101576.D | 11/12/2024 | 11:11 |
| WC-1(0-6) | P4722-05 | BE101578.D | 11/12/2024 | 12:29 |
| WC-3(0-6)MS | P4722-15MS | BE101581.D | 11/12/2024 | 14:13 |
| WC-3(0-6)MSD | P4722-15MSD | BE101582.D | 11/12/2024 | 14:49 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140331.D DFTPP Injection Date: 11/13/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:35

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 36.9 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 38 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.6 |
| 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 | 6.4 |
| 275 | 10.0 - 60.0% of mass 198 | 28.3 |
| 365 | Greater than 1% of mass 198 | 3.5 |
| 441 | Present, but less than mass 443 | 14 |
| 442 | Greater than 50% of mass 198 | 88.6 |
| 443 | 15.0 - 24.0% of mass 442 | 16.7 (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:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF140332.D | 11/13/2024 | 09:01 |
| SSTDICC005 | SSTDICC005 | BF140333.D | 11/13/2024 | 09:27 |
| SSTDICC010 | SSTDICC010 | BF140334.D | 11/13/2024 | 09:53 |
| SSTDICC020 | SSTDICC020 | BF140335.D | 11/13/2024 | 10:29 |
| SSTDICC050 | SSTDICC050 | BF140337.D | 11/13/2024 | 11:21 |
| SSTDICC060 | SSTDICC060 | BF140338.D | 11/13/2024 | 11:47 |
| SSTDICC080 | SSTDICC080 | BF140339.D | 11/13/2024 | 12:13 |
| SSTDICCC040 | SSTDICCC040 | BF140340.D | 11/13/2024 | 12:48 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140365.D DFTPP Injection Date: 11/14/2024

Instrument ID: BNA_F DFTPP Injection Time: 16:35

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 38.3 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 39.7 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.6 |
| 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 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 28.2 |
| 365 | Greater than 1% of mass 198 | 3.4 |
| 441 | Present, but less than mass 443 | 12.8 |
| 442 | Greater than 50% of mass 198 | 82.7 |
| 443 | 15.0 - 24.0% of mass 442 | 15.3 (18.4) 2 |

1-Value is % mass 69

2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF140366.D | 11/14/2024 | 17:02 |
| WC-2(0-6) | P4722-10 | BF140368.D | 11/14/2024 | 17:59 |
| WC-3(0-6) | P4722-15 | BF140369.D | 11/14/2024 | 18:25 |

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5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140390.D DFTPP Injection Date: 11/15/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:16

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 38 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.7 ) 1 |
| 69 | Mass 69 relative abundance | 38.4 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 49 |
| 197 | Less than 2.0% of mass 198 | 0.8 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 27.5 |
| 365 | Greater than 1% of mass 198 | 3.3 |
| 441 | Present, but less than mass 443 | 13.2 |
| 442 | Greater than 50% of mass 198 | 83 |
| 443 | 15.0 - 24.0% of mass 442 | 15.9 (19.1) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF140391.D | 11/15/2024 | 09:42 |
| PB164886BS | PB164886BS | BF140394.D | 11/15/2024 | 11:00 |

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140526.D DFTPP Injection Date: 11/21/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:17

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 33.3 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 35.5 |
| 70 | Less than 2.0% of mass 69 | 0.3 ( 0.7 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48 |
| 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 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 29.2 |
| 365 | Greater than 1% of mass 198 | 3.8 |
| 441 | Present, but less than mass 443 | 15.7 |
| 442 | Greater than 50% of mass 198 | 99.8 |
| 443 | 15.0 - 24.0% of mass 442 | 18.1 (18.1) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF140528.D | 11/21/2024 | 11:13 |
| SSTDICC005 | SSTDICC005 | BF140529.D | 11/21/2024 | 11:39 |
| SSTDICC010 | SSTDICC010 | BF140530.D | 11/21/2024 | 12:05 |
| SSTDICC020 | SSTDICC020 | BF140531.D | 11/21/2024 | 12:32 |
| SSTDICCC040 | SSTDICCC040 | BF140532.D | 11/21/2024 | 12:58 |
| SSTDICC050 | SSTDICC050 | BF140533.D | 11/21/2024 | 13:25 |
| SSTDICC060 | SSTDICC060 | BF140534.D | 11/21/2024 | 13:51 |
| SSTDICC080 | SSTDICC080 | BF140535.D | 11/21/2024 | 14:18 |

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5B

# SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM SAS No.: P4722 SDG NO.: P4722

Lab File ID: BF140589.D DFTPP Injection Date: 11/25/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:07

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 34.8 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 1.9 ) 1 |
| 69 | Mass 69 relative abundance | 36.7 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48.2 |
| 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 | 6.4 |
| 275 | 10.0 - 60.0% of mass 198 | 28.6 |
| 365 | Greater than 1% of mass 198 | 3.7 |
| 441 | Present, but less than mass 443 | 15.5 |
| 442 | Greater than 50% of mass 198 | 98.2 |
| 443 | 15.0 - 24.0% of mass 442 | 18.5 (18.9) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF140590.D | 11/25/2024 | 09:33 |
| PB164886TB | PB164886TB | BF140599.D | 11/25/2024 | 13:27 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/12/2024

Lab File ID: BE101575.D Time Analyzed: 10:18

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

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 74030 | 7.553 | 315608 | 10.33 | 204281 | 14.17 |
| | UPPER LIMIT | 148060 | 8.053 | 631216 | 10.826 | 408562 | 14.669 |
| | LOWER LIMIT | 37015 | 7.053 | 157804 | 9.826 | 102141 | 13.669 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164886BL | 43722 | 7.56 | 176416 | 10.32 | 107077 | 14.17 |
| 02 | WC-1(0-6) | 37247 | 7.55 | 175455 | 10.32 | 135773 | 14.16 |
| 03 | WC-3(0-6)MS | 40085 | 7.55 | 193126 | 10.32 | 136804 | 14.16 |
| 04 | WC-3(0-6)MSD | 43626 | 7.55 | 201868 | 10.32 | 141265 | 14.17 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/12/2024

Lab File ID: BE101575.D Time Analyzed: 10:18

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

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 460719 | 16.907 | 529921 | 21.072 | 667920 | 23.352 |
| | UPPER LIMIT | 921438 | 17.407 | 1059840 | 21.572 | 1335840 | 23.852 |
| | LOWER LIMIT | 230360 | 16.407 | 264961 | 20.572 | 333960 | 22.852 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164886BL | 234410 | 16.90 | 303518 | 21.07 | 454322 | 23.35 |
| 02 | WC-1(0-6) | 333737 | 16.90 | 375483 | 21.06 | 475775 | 23.35 |
| 03 | WC-3(0-6)MS | 318029 | 16.90 | 362423 | 21.07 | 463405 | 23.35 |
| 04 | WC-3(0-6)MSD | 336224 | 16.91 | 377212 | 21.07 | 473853 | 23.35 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140366.D Time Analyzed: 17:02

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 | 130579 | 6.875 | 484942 | 8.16 | 265027 | 9.91 |
| | UPPER LIMIT | 261158 | 7.375 | 969884 | 8.657 | 530054 | 10.41 |
| | LOWER LIMIT | 65289.5 | 6.375 | 242471 | 7.657 | 132514 | 9.41 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | WC-2(0-6) | 124042 | 6.87 | 464909 | 8.15 | 252110 | 9.90 |
| 02 | WC-3(0-6) | 119391 | 6.87 | 441580 | 8.15 | 232299 | 9.90 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140366.D Time Analyzed: 17:02

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 | 494420 | 11.398 | 287889 | 14.062 | 258896 | 15.592 |
| | UPPER LIMIT | 988840 | 11.898 | 575778 | 14.562 | 517792 | 16.092 |
| | LOWER LIMIT | 247210 | 10.898 | 143945 | 13.562 | 129448 | 15.092 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | WC-2(0-6) | 459695 | 11.39 | 260161 | 14.05 | 261026 | 15.55 |
| 02 | WC-3(0-6) | 429770 | 11.39 | 232532 | 14.05 | 241777 | 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: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/15/2024

Lab File ID: BF140391.D Time Analyzed: 09:42

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 | 137586 | 6.881 | 510501 | 8.16 | 282269 | 9.92 |
| | UPPER LIMIT | 275172 | 7.381 | 1021000 | 8.657 | 564538 | 10.416 |
| | LOWER LIMIT | 68793 | 6.381 | 255251 | 7.657 | 141135 | 9.416 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164886BS | 150149 | 6.88 | 576878 | 8.16 | 316651 | 9.92 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/15/2024

Lab File ID: BF140391.D Time Analyzed: 09:42

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 | 532450 | 11.404 | 316907 | 14.063 | 286665 | 15.574 |
| | UPPER LIMIT | 1064900 | 11.904 | 633814 | 14.563 | 573330 | 16.074 |
| | LOWER LIMIT | 266225 | 10.904 | 158454 | 13.563 | 143333 | 15.074 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164886BS | 599000 | 11.40 | 344150 | 14.07 | 315700 | 15.58 |

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140590.D Time Analyzed: 09:33

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 | 105131 | 6.869 | 390145 | 8.15 | 212616 | 9.91 |
| | UPPER LIMIT | 210262 | 7.369 | 780290 | 8.651 | 425232 | 10.41 |
| | LOWER LIMIT | 52565.5 | 6.369 | 195073 | 7.651 | 106308 | 9.41 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164886TB | 104822 | 6.87 | 403503 | 8.15 | 233025 | 9.90 |

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140590.D Time Analyzed: 09:33

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 | 399326 | 11.398 | 244297 | 14.051 | 211888 | 15.545 |
| | UPPER LIMIT | 798652 | 11.898 | 488594 | 14.551 | 423776 | 16.045 |
| | LOWER LIMIT | 199663 | 10.898 | 122149 | 13.551 | 105944 | 15.045 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB164886TB | 439175 | 11.40 | 240574 | 14.05 | 200437 | 15.56 |

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

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

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

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164886BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164886BL | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101576.D | 1 | 11/10/24 13:32 | 11/12/24 11:11 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 4.00 | U | 4.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 0.93 | U | 0.93 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 1.20 | U | 1.20 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 0.71 | U | 0.71 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 1.10 | U | 1.10 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1.40 | U | 1.40 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 1.20 | U | 1.20 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1.50 | U | 1.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 1.10 | U | 1.10 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 2.00 | U | 2.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 1.50 | U | 1.50 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1.00 | U | 1.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 0.88 | U | 0.88 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 1.30 | U | 1.30 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 1.70 | U | 1.70 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 0.84 | U | 0.84 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 5.00 | U | 5.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 0.89 | U | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 1.00 | U | 1.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 0.91 | U | 0.91 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 0.97 | U | 0.97 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 1.40 | U | 1.40 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 0.93 | U | 0.93 | 5.00 | ug/L |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164886BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164886BL | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101576.D | 1 | 11/10/24 13:32 | 11/12/24 11:11 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 1.40 | U | 1.40 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 0.81 | U | 0.81 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 6.40 | U | 6.40 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 2.00 | U | 2.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 0.93 | U | 0.93 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 1.50 | U | 1.50 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 1.00 | U | 1.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 0.98 | U | 0.98 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 0.96 | U | 0.96 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 2.00 | U | 2.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3.10 | U | 3.10 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 0.89 | U | 0.89 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 0.95 | U | 0.95 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 1.30 | U | 1.30 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 1.90 | U | 1.90 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 0.89 | U | 0.89 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 1.20 | U | 1.20 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 1.50 | U | 1.50 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 1.30 | U | 1.30 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 2.10 | U | 2.10 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 1.30 | U | 1.30 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 0.94 | U | 0.94 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 0.86 | U | 0.86 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1.90 | U | 1.90 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 2.50 | U | 2.50 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 1.10 | U | 1.10 | 5.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164886BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164886BL | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101576.D | 1 | 11/10/24 13:32 | 11/12/24 11:11 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 1.70 | U | 1.70 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1.00 | U | 1.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 1.20 | U | 1.20 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1.10 | U | 1.10 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 1.30 | U | 1.30 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 0.79 | U | 0.79 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 153 | | 10 - 139 | 102% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 135 | | 10 - 134 | 90% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 98.0 | | 49 - 133 | 98% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 103 | | 52 - 132 | 103% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 125 | | 44 - 137 | 83% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 99.2 | | 48 - 125 | 99% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 43700 | 7.555 | | | |
| 1146-65-2 | Naphthalene-d8 | 176000 | 10.322 | | | |
| 15067-26-2 | Acenaphthene-d10 | 107000 | 14.165 | | | |
| 1517-22-2 | Phenanthrene-d10 | 234000 | 16.903 | | | |
| 1719-03-5 | Chrysene-d12 | 304000 | 21.069 | | | |
| 1520-96-3 | Perylene-d12 | 454000 | 23.348 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164886BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164886BS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140394.D | 1 | 11/10/24 13:32 | 11/15/24 11:00 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 4.00 | U | 4.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 40.9 | | 0.93 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 43.2 | | 1.20 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 44.2 | | 0.71 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 42.1 | | 1.10 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 41.0 | | 1.40 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 41.8 | | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 42.5 | | 1.20 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 41.1 | | 1.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 42.0 | | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 40.3 | | 1.30 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 41.5 | | 1.10 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 43.7 | | 2.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 50.9 | | 1.50 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 40.8 | | 1.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 42.7 | | 0.88 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 41.2 | | 1.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 31.3 | | 1.30 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 40.5 | | 1.30 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 44.2 | | 1.70 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 42.7 | | 0.84 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 41.5 | | 1.10 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 170 | E | 5.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 43.0 | | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 42.3 | | 1.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 41.2 | | 0.91 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 41.0 | | 0.97 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 44.4 | | 1.40 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 42.8 | | 0.93 | 5.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164886BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164886BS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140394.D | 1 | 11/10/24 13:32 | 11/15/24 11:00 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 45.0 | | 1.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 41.5 | | 1.20 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 33.0 | | 1.40 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 48.4 | | 0.81 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 96.7 | E | 6.40 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 89.1 | E | 2.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 43.3 | | 0.93 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 44.1 | | 1.50 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 42.3 | | 1.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 41.5 | | 0.98 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 42.1 | | 0.96 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 43.7 | | 2.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 49.0 | | 3.10 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 43.7 | | 0.89 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 42.1 | | 0.95 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 42.3 | | 1.10 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 35.1 | | 1.30 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 83.4 | E | 1.90 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 43.7 | | 0.89 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 45.3 | | 1.10 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 43.0 | | 1.20 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 41.4 | | 1.50 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 42.0 | | 1.30 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 46.1 | | 1.10 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 46.2 | | 2.10 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 38.3 | | 1.30 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 45.8 | | 0.94 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 45.0 | | 0.86 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 44.4 | | 1.90 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 43.7 | | 2.50 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 38.5 | | 1.10 | 5.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164886BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164886BS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF140394.D | 1 | 11/10/24 13:32 | 11/15/24 11:00 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 46.7 | | 1.20 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 46.7 | | 1.70 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 46.0 | | 1.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 45.3 | | 1.20 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 41.5 | | 1.20 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 41.9 | | 1.10 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 36.8 | | 1.30 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 46.8 | | 0.79 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 123 | | 10 - 139 | 82% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 118 | | 10 - 134 | 78% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 84.1 | | 49 - 133 | 84% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 82.2 | | 52 - 132 | 82% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 130 | | 44 - 137 | 87% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 93.2 | | 48 - 125 | 93% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 150000 | 6.875 | | | |
| 1146-65-2 | Naphthalene-d8 | 577000 | 8.157 | | | |
| 15067-26-2 | Acenaphthene-d10 | 317000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 599000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 344000 | 14.068 | | | |
| 1520-96-3 | Perylene-d12 | 316000 | 15.58 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)MS | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15MS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101581.D | 1 | 11/10/24 13:32 | 11/12/24 14:13 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 7.60 | J | 4.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 17.5 | | 0.93 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 41.5 | | 1.20 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 37.7 | | 0.71 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 34.4 | | 1.10 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 45.4 | | 1.40 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 42.0 | | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 30.4 | | 1.20 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 46.1 | | 1.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 24.2 | | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 41.0 | | 1.30 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 44.1 | | 1.10 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 41.0 | | 2.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 49.7 | | 1.50 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 43.7 | | 1.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 41.6 | | 0.88 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 36.6 | | 1.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 21.1 | | 1.30 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 26.9 | | 1.30 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 7.40 | J | 1.70 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 39.7 | | 0.84 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 41.1 | | 1.10 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 120 | E | 5.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 44.0 | | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 42.6 | | 1.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 42.4 | | 0.91 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 40.8 | | 0.97 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 48.3 | | 1.40 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 45.8 | | 0.93 | 5.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)MS | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15MS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101581.D | 1 | 11/10/24 13:32 | 11/12/24 14:13 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 46.3 | | 1.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 43.0 | | 1.20 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 27.5 | | 1.40 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 45.1 | | 0.81 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 96.6 | E | 6.40 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 36.6 | | 2.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 45.2 | | 0.93 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 45.7 | | 1.50 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 46.8 | | 1.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 44.7 | | 0.98 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 46.1 | | 0.96 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 43.9 | | 2.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 47.1 | | 3.10 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 46.5 | | 0.89 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 44.6 | | 0.95 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 43.5 | | 1.10 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 60.6 | | 1.30 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 89.1 | E | 1.90 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 48.0 | | 0.89 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 50.0 | | 1.10 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 46.8 | | 1.20 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 48.6 | | 1.50 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 46.5 | | 1.30 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 46.9 | | 1.10 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 48.5 | | 2.10 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 33.6 | | 1.30 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 47.8 | | 0.94 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 48.0 | | 0.86 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 49.1 | | 1.90 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 49.6 | | 2.50 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 45.4 | | 1.10 | 5.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)MS | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15MS | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101581.D | 1 | 11/10/24 13:32 | 11/12/24 14:13 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 48.8 | | 1.20 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 49.3 | | 1.70 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 48.2 | | 1.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 48.4 | | 1.20 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 42.8 | | 1.20 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 39.5 | | 1.10 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 18.0 | | 1.30 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 45.3 | | 0.79 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 68.4 | | 10 - 139 | 46% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 41.5 | | 10 - 134 | 28% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 87.1 | | 49 - 133 | 87% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 87.7 | | 52 - 132 | 88% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 129 | | 44 - 137 | 86% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 98.2 | | 48 - 125 | 98% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 40100 | 7.552 | | | |
| 1146-65-2 | Naphthalene-d8 | 193000 | 10.32 | | | |
| 15067-26-2 | Acenaphthene-d10 | 137000 | 14.162 | | | |
| 1517-22-2 | Phenanthrene-d10 | 318000 | 16.9 | | | |
| 1719-03-5 | Chrysene-d12 | 362000 | 21.066 | | | |
| 1520-96-3 | Perylene-d12 | 463000 | 23.346 | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15MSD | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101582.D | 1 | 11/10/24 13:32 | 11/12/24 14:49 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 7.50 | J | 4.00 | 10.0 | ug/L |
| 108-95-2 | Phenol | 16.8 | | 0.93 | 5.00 | ug/L |
| 111-44-4 | bis(2-Chloroethyl)ether | 40.1 | | 1.20 | 5.00 | ug/L |
| 95-57-8 | 2-Chlorophenol | 36.5 | | 0.71 | 5.00 | ug/L |
| 95-48-7 | 2-Methylphenol | 32.7 | | 1.10 | 5.00 | ug/L |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 44.5 | | 1.40 | 5.00 | ug/L |
| 98-86-2 | Acetophenone | 41.6 | | 1.10 | 5.00 | ug/L |
| 65794-96-9 | 3+4-Methylphenols | 28.9 | | 1.20 | 10.0 | ug/L |
| 621-64-7 | n-Nitroso-di-n-propylamine | 44.3 | | 1.50 | 2.50 | ug/L |
| 67-72-1 | Hexachloroethane | 24.4 | | 1.00 | 5.00 | ug/L |
| 98-95-3 | Nitrobenzene | 41.2 | | 1.30 | 5.00 | ug/L |
| 78-59-1 | Isophorone | 44.0 | | 1.10 | 5.00 | ug/L |
| 88-75-5 | 2-Nitrophenol | 41.2 | | 2.00 | 5.00 | ug/L |
| 105-67-9 | 2,4-Dimethylphenol | 49.2 | | 1.50 | 5.00 | ug/L |
| 111-91-1 | bis(2-Chloroethoxy)methane | 43.5 | | 1.00 | 5.00 | ug/L |
| 120-83-2 | 2,4-Dichlorophenol | 41.2 | | 0.88 | 5.00 | ug/L |
| 91-20-3 | Naphthalene | 37.0 | | 1.00 | 5.00 | ug/L |
| 106-47-8 | 4-Chloroaniline | 19.8 | | 1.30 | 5.00 | ug/L |
| 87-68-3 | Hexachlorobutadiene | 27.6 | | 1.30 | 5.00 | ug/L |
| 105-60-2 | Caprolactam | 7.20 | J | 1.70 | 10.0 | ug/L |
| 59-50-7 | 4-Chloro-3-methylphenol | 39.4 | | 0.84 | 5.00 | ug/L |
| 91-57-6 | 2-Methylnaphthalene | 41.1 | | 1.10 | 5.00 | ug/L |
| 77-47-4 | Hexachlorocyclopentadiene | 130 | E | 5.00 | 10.0 | ug/L |
| 88-06-2 | 2,4,6-Trichlorophenol | 44.2 | | 0.89 | 5.00 | ug/L |
| 95-95-4 | 2,4,5-Trichlorophenol | 43.4 | | 1.00 | 5.00 | ug/L |
| 92-52-4 | 1,1-Biphenyl | 42.8 | | 0.91 | 5.00 | ug/L |
| 91-58-7 | 2-Chloronaphthalene | 41.0 | | 0.97 | 5.00 | ug/L |
| 88-74-4 | 2-Nitroaniline | 48.4 | | 1.40 | 5.00 | ug/L |
| 131-11-3 | Dimethylphthalate | 46.0 | | 0.93 | 5.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15MSD | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101582.D | 1 | 11/10/24 13:32 | 11/12/24 14:49 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 47.0 | | 1.00 | 5.00 | ug/L |
| 606-20-2 | 2,6-Dinitrotoluene | 43.7 | | 1.20 | 5.00 | ug/L |
| 99-09-2 | 3-Nitroaniline | 27.3 | | 1.40 | 5.00 | ug/L |
| 83-32-9 | Acenaphthene | 45.4 | | 0.81 | 5.00 | ug/L |
| 51-28-5 | 2,4-Dinitrophenol | 97.8 | E | 6.40 | 10.0 | ug/L |
| 100-02-7 | 4-Nitrophenol | 38.6 | | 2.00 | 10.0 | ug/L |
| 132-64-9 | Dibenzofuran | 47.2 | | 0.93 | 5.00 | ug/L |
| 121-14-2 | 2,4-Dinitrotoluene | 47.3 | | 1.50 | 5.00 | ug/L |
| 84-66-2 | Diethylphthalate | 47.8 | | 1.00 | 5.00 | ug/L |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 46.1 | | 0.98 | 5.00 | ug/L |
| 86-73-7 | Fluorene | 48.1 | | 0.96 | 5.00 | ug/L |
| 100-01-6 | 4-Nitroaniline | 45.4 | | 2.00 | 5.00 | ug/L |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 47.5 | | 3.10 | 10.0 | ug/L |
| 86-30-6 | n-Nitrosodiphenylamine | 47.1 | | 0.89 | 5.00 | ug/L |
| 101-55-3 | 4-Bromophenyl-phenylether | 45.2 | | 0.95 | 5.00 | ug/L |
| 118-74-1 | Hexachlorobenzene | 44.3 | | 1.10 | 5.00 | ug/L |
| 1912-24-9 | Atrazine | 60.2 | | 1.30 | 5.00 | ug/L |
| 87-86-5 | Pentachlorophenol | 91.2 | E | 1.90 | 10.0 | ug/L |
| 85-01-8 | Phenanthrene | 48.1 | | 0.89 | 5.00 | ug/L |
| 120-12-7 | Anthracene | 49.1 | | 1.10 | 5.00 | ug/L |
| 86-74-8 | Carbazole | 46.4 | | 1.20 | 5.00 | ug/L |
| 84-74-2 | Di-n-butylphthalate | 48.6 | | 1.50 | 5.00 | ug/L |
| 206-44-0 | Fluoranthene | 45.6 | | 1.30 | 5.00 | ug/L |
| 129-00-0 | Pyrene | 47.4 | | 1.10 | 5.00 | ug/L |
| 85-68-7 | Butylbenzylphthalate | 49.4 | | 2.10 | 5.00 | ug/L |
| 91-94-1 | 3,3-Dichlorobenzidine | 34.1 | | 1.30 | 10.0 | ug/L |
| 56-55-3 | Benzo(a)anthracene | 48.2 | | 0.94 | 5.00 | ug/L |
| 218-01-9 | Chrysene | 47.8 | | 0.86 | 5.00 | ug/L |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 47.8 | | 1.90 | 5.00 | ug/L |
| 117-84-0 | Di-n-octyl phthalate | 48.4 | | 2.50 | 10.0 | ug/L |
| 205-99-2 | Benzo(b)fluoranthene | 47.0 | | 1.10 | 5.00 | ug/L |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15MSD | Matrix: | Water |
| Analytical Method: | SW8270 | % Solid: | 0 |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP BNA |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BE101582.D | 1 | 11/10/24 13:32 | 11/12/24 14:49 | PB164886 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 52.1 | | 1.20 | 5.00 | ug/L |
| 50-32-8 | Benzo(a)pyrene | 49.6 | | 1.70 | 5.00 | ug/L |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 49.1 | | 1.00 | 5.00 | ug/L |
| 53-70-3 | Dibenzo(a,h)anthracene | 49.2 | | 1.20 | 5.00 | ug/L |
| 191-24-2 | Benzo(g,h,i)perylene | 43.9 | | 1.20 | 5.00 | ug/L |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 40.1 | | 1.10 | 5.00 | ug/L |
| 123-91-1 | 1,4-Dioxane | 17.6 | | 1.30 | 5.00 | ug/L |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 47.8 | | 0.79 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 67.3 | | 10 - 139 | 45% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 41.0 | | 10 - 134 | 27% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 88.0 | | 49 - 133 | 88% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 88.5 | | 52 - 132 | 89% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 135 | | 44 - 137 | 90% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 97.3 | | 48 - 125 | 97% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 43600 | 7.552 | | | |
| 1146-65-2 | Naphthalene-d8 | 202000 | 10.319 | | | |
| 15067-26-2 | Acenaphthene-d10 | 141000 | 14.168 | | | |
| 1517-22-2 | Phenanthrene-d10 | 336000 | 16.906 | | | |
| 1719-03-5 | Chrysene-d12 | 377000 | 21.065 | | | |
| 1520-96-3 | Perylene-d12 | 474000 | 23.345 | | | |

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_E

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 07 00:01:20 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BE101493.D 5 =BE101494.D 10 =BE101495.D 20 =BE101496.D 40 =BE101497.D 50 =BE101498.D 60 =BE101499.D 80 =BE101500.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.495 | 0.458 | 0.438 | 0.406 | 0.378 | 0.394 | 0.378 | 0.421 | 10.54 |
| 3) | | Pyridine | | 1.154 | 1.183 | 1.143 | 1.154 | 1.192 | 1.230 | 1.186 | 1.177 | 2.53 |
| 4) | | n-Nitrosodimet... | | 0.509 | 0.465 | 0.446 | 0.445 | 0.461 | 0.473 | 0.464 | 0.466 | 4.58 |
| 5) | S | 2-Fluorophenol | | 1.161 | 1.135 | 1.120 | 1.101 | 1.114 | 1.159 | 1.127 | 1.131 | 1.99 |
| 6) | | Aniline | | 1.323 | 1.251 | 1.316 | 1.368 | 1.026 | 1.044 | 0.819 | 1.164 | 17.52 |
| 7) | S | Phenol-d6 | | 1.494 | 1.525 | 1.558 | 1.540 | 1.571 | 1.617 | 1.551 | 1.551 | 2.49 |
| 8) | | 2-Chlorophenol | | 1.339 | 1.343 | 1.359 | 1.316 | 1.336 | 1.364 | 1.324 | 1.340 | 1.30 |
| 9) | | Benzaldehyde | | 0.902 | 0.930 | 0.875 | 0.767 | 0.654 | 0.640 | 0.542 | 0.759 | 19.80 |
| 10) | C | Phenol | | 1.646 | 1.682 | 1.702 | 1.664 | 1.709 | 1.764 | 1.649 | 1.688 | 2.45 |
| 11) | | bis(2-Chloroet... | | 1.362 | 1.474 | 1.392 | 1.165 | 1.446 | 1.447 | 1.497 | 1.397 | 8.03 |
| 12) | | 1,3-Dichlorobe... | | 1.573 | 1.526 | 1.491 | 1.424 | 1.410 | 1.437 | 1.379 | 1.463 | 4.74 |
| 13) | C | 1,4-Dichlorobe... | | 1.565 | 1.543 | 1.508 | 1.444 | 1.437 | 1.464 | 1.412 | 1.482 | 3.89 |
| 14) | | 1,2-Dichlorobe... | | 1.559 | 1.496 | 1.481 | 1.418 | 1.416 | 1.435 | 1.378 | 1.455 | 4.20 |
| 15) | | Benzyl Alcohol | | 0.791 | 0.861 | 0.910 | 0.919 | 0.958 | 0.977 | 0.926 | 0.906 | 6.94 |
| 16) | | 2,2'-oxybis(1-... | | 1.733 | 1.690 | 1.700 | 1.628 | 1.625 | 1.636 | 1.567 | 1.654 | 3.41 |
| 17) | | 2-Methylphenol | | 1.015 | 1.041 | 1.073 | 1.113 | 1.123 | 1.163 | 1.123 | 1.093 | 4.76 |
| 18) | | Hexachloroethane | | 0.524 | 0.509 | 0.507 | 0.484 | 0.494 | 0.501 | 0.483 | 0.500 | 2.95 |
| 19) | P | n-Nitroso-di-n... | 0.958 | 0.996 | 1.040 | 1.058 | 1.027 | 1.046 | 1.057 | 0.998 | 1.023 | 3.48 |
| 20) | | 3+4-Methylphenols | | 1.376 | 1.483 | 1.529 | 1.524 | 1.558 | 1.606 | 1.530 | 1.515 | 4.74 |
| 21) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | | |
| 22) | | Acetophenone | | 0.462 | 0.460 | 0.461 | 0.443 | 0.447 | 0.455 | 0.443 | 0.453 | 1.91 |
| 23) | S | Nitrobenzene-d5 | | 0.313 | 0.316 | 0.318 | 0.312 | 0.318 | 0.325 | 0.313 | 0.317 | 1.46 |
| 24) | | Nitrobenzene | | 0.325 | 0.329 | 0.330 | 0.324 | 0.329 | 0.338 | 0.330 | 0.329 | 1.41 |
| 25) | | Isophorone | | 0.599 | 0.619 | 0.632 | 0.611 | 0.618 | 0.630 | 0.605 | 0.616 | 1.98 |
| 26) | C | 2-Nitrophenol | | 0.159 | 0.167 | 0.175 | 0.174 | 0.182 | 0.187 | 0.183 | 0.175 | 5.41 |
| 27) | | 2,4-Dimethylph... | | 0.196 | 0.199 | 0.204 | 0.198 | 0.205 | 0.212 | 0.206 | 0.203 | 2.83 |
| 28) | | bis(2-Chloroet... | | 0.376 | 0.383 | 0.386 | 0.371 | 0.375 | 0.381 | 0.369 | 0.377 | 1.65 |
| 29) | C | 2,4-Dichloroph... | | 0.275 | 0.279 | 0.289 | 0.283 | 0.294 | 0.302 | 0.294 | 0.288 | 3.35 |
| 30) | | 1,2,4-Trichlor... | | 0.344 | 0.326 | 0.323 | 0.311 | 0.313 | 0.321 | 0.312 | 0.321 | 3.63 |
| 31) | | Naphthalene | | 1.071 | 1.033 | 1.027 | 0.983 | 0.983 | 1.003 | 0.968 | 1.010 | 3.58 |
| 32) | | Benzoic acid | | | 0.112 | 0.137 | 0.166 | 0.191 | 0.202 | 0.202 | 0.168 | 22.18 |
| 33) | | 4-Chloroaniline | | 0.342 | 0.364 | 0.371 | 0.358 | 0.356 | 0.361 | 0.334 | 0.355 | 3.65 |
| 34) | C | Hexachlorobuta... | | 0.209 | 0.198 | 0.202 | 0.192 | 0.195 | 0.198 | 0.193 | 0.198 | 2.95 |
| 35) | | Caprolactam | | 0.097 | 0.107 | 0.107 | 0.107 | 0.106 | 0.111 | 0.105 | 0.106 | 4.09 |
| 36) | C | 4-Chloro-3-met... | | 0.293 | 0.318 | 0.316 | 0.312 | 0.318 | 0.327 | 0.317 | 0.314 | 3.27 |
| 37) | | 2-Methylnaphth... | | 0.744 | 0.733 | 0.733 | 0.706 | 0.705 | 0.715 | 0.684 | 0.717 | 2.93 |
| 38) | | 1-Methylnaphth... | | 0.752 | 0.738 | 0.734 | 0.696 | 0.697 | 0.711 | 0.679 | 0.715 | 3.72 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.546 | 0.518 | 0.535 | 0.513 | 0.519 | 0.535 | 0.525 | 0.527 | 2.24 |
| 41) | P | Hexachlorocycl... | 0.106 | 0.128 | 0.153 | 0.167 | 0.175 | 0.178 | 0.171 | 0.154 | 17.72 |
| 42) | S | 2,4,6-Tribromo... | 0.388 | 0.391 | 0.391 | 0.369 | 0.364 | 0.375 | 0.357 | 0.376 | 3.64 |
| 43) | C | 2,4,6-Trichlor... | 0.358 | 0.352 | 0.360 | 0.358 | 0.361 | 0.376 | 0.369 | 0.362 | 2.21 |
| 44) | | 2,4,5-Trichlor... | 0.390 | 0.381 | 0.402 | 0.400 | 0.411 | 0.425 | 0.415 | 0.403 | 3.71 |
| 45) | S | 2-Fluorobiphenyl | 1.353 | 1.295 | 1.299 | 1.204 | 1.160 | 1.163 | 1.100 | 1.225 | 7.52 |
| 46) | | 1,1'-Biphenyl | 1.451 | 1.416 | 1.424 | 1.336 | 1.344 | 1.366 | 1.320 | 1.380 | 3.66 |
| 47) | | 2-Chloronaphth... | 1.124 | 1.104 | 1.115 | 1.060 | 1.065 | 1.091 | 1.060 | 1.088 | 2.49 |
| 48) | | 2-Nitroaniline | 0.248 | 0.273 | 0.292 | 0.288 | 0.300 | 0.312 | 0.302 | 0.288 | 7.44 |
| 49) | | Acenaphthylene | 1.664 | 1.660 | 1.661 | 1.584 | 1.586 | 1.629 | 1.565 | 1.622 | 2.62 |
| 50) | | Dimethylphthalate | 1.500 | 1.479 | 1.478 | 1.389 | 1.368 | 1.403 | 1.352 | 1.424 | 4.22 |
| 51) | | 2,6-Dinitrotol... | 0.316 | 0.330 | 0.336 | 0.324 | 0.327 | 0.338 | 0.329 | 0.329 | 2.23 |
| 52) | C | Acenaphthene | 1.116 | 1.075 | 1.080 | 1.007 | 0.996 | 1.007 | 0.962 | 1.035 | 5.38 |
| 53) | | 3-Nitroaniline | 0.282 | 0.320 | 0.335 | 0.328 | 0.323 | 0.333 | 0.314 | 0.319 | 5.67 |
| 54) | P | 2,4-Dinitrophenol | | 0.139 | 0.178 | 0.194 | 0.208 | 0.220 | 0.217 | 0.193 | 15.82 |
| 55) | | Dibenzofuran | 1.799 | 1.736 | 1.724 | 1.615 | 1.591 | 1.629 | 1.568 | 1.666 | 5.20 |
| 56) | P | 4-Nitrophenol | 0.197 | 0.235 | 0.278 | 0.275 | 0.274 | 0.295 | 0.290 | 0.264 | 13.26 |
| 57) | | 2,4-Dinitrotol... | 0.426 | 0.456 | 0.480 | 0.460 | 0.463 | 0.482 | 0.466 | 0.462 | 3.99 |
| 58) | | Fluorene | 1.490 | 1.475 | 1.458 | 1.363 | 1.328 | 1.347 | 1.272 | 1.391 | 6.03 |
| 59) | | 2,3,4,6-Tetrac... | 0.379 | 0.366 | 0.377 | 0.369 | 0.370 | 0.381 | 0.372 | 0.373 | 1.53 |
| 60) | | Diethylphthalate | 1.600 | 1.579 | 1.577 | 1.457 | 1.442 | 1.460 | 1.397 | 1.502 | 5.41 |
| 61) | | 4-Chlorophenyl... | 0.757 | 0.736 | 0.733 | 0.689 | 0.680 | 0.692 | 0.657 | 0.706 | 5.12 |
| 62) | | 4-Nitroaniline | 0.285 | 0.334 | 0.359 | 0.349 | 0.355 | 0.366 | 0.359 | 0.344 | 8.07 |
| 63) | | Azobenzene | 1.283 | 1.269 | 1.289 | 1.196 | 1.183 | 1.203 | 1.153 | 1.225 | 4.44 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | 0.084 | 0.104 | 0.117 | 0.123 | 0.131 | 0.136 | 0.135 | 0.119 | 15.97 |
| 66) | c | n-Nitrosodiphe... | 0.550 | 0.534 | 0.545 | 0.519 | 0.526 | 0.533 | 0.509 | 0.531 | 2.68 |
| 67) | | 4-Bromophenyl-... | 0.226 | 0.218 | 0.221 | 0.214 | 0.221 | 0.225 | 0.219 | 0.221 | 1.85 |
| 68) | | Hexachlorobenzene | 0.301 | 0.290 | 0.295 | 0.282 | 0.287 | 0.294 | 0.283 | 0.290 | 2.33 |
| 69) | | Atrazine | 0.202 | 0.187 | 0.151 | 0.171 | 0.121 | 0.135 | 0.130 | 0.157 | 19.70 |
| 70) | C | Pentachlorophenol | 0.129 | 0.139 | 0.155 | 0.162 | 0.167 | 0.176 | 0.176 | 0.158 | 11.39 |
| 71) | | Phenanthrene | 1.067 | 1.000 | 1.016 | 0.942 | 0.936 | 0.947 | 0.901 | 0.973 | 5.87 |
| 72) | | Anthracene | 1.030 | 0.985 | 0.998 | 0.943 | 0.932 | 0.949 | 0.887 | 0.961 | 4.94 |
| 73) | | Carbazole | 1.030 | 1.003 | 1.001 | 0.940 | 0.924 | 0.947 | 0.899 | 0.963 | 5.00 |
| 74) | | Di-n-butylphth... | 1.312 | 1.269 | 1.261 | 1.170 | 1.128 | 1.121 | 1.068 | 1.190 | 7.68 |
| 75) | C | Fluoranthene | 1.442 | 1.353 | 1.316 | 1.208 | 1.157 | 1.158 | 1.096 | 1.247 | 10.04 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.324 | 0.433 | 0.250 | 0.403 | 0.656 | 0.503 | 0.440 | 0.430 | 30.17 |
| 78) | | Pyrene | 1.201 | 1.158 | 1.199 | 1.130 | 1.125 | 1.117 | 1.036 | 1.138 | 4.95 |
| 79) | S | Terphenyl-d14 | 1.065 | 1.023 | 1.028 | 0.902 | 0.819 | 0.780 | 0.707 | 0.904 | 15.44 |
| 80) | | Butylbenzylpht... | 0.541 | 0.522 | 0.531 | 0.507 | 0.500 | 0.505 | 0.474 | 0.511 | 4.31 |
| 81) | | Benzo(a)anthra... | 1.334 | 1.258 | 1.258 | 1.170 | 1.138 | 1.118 | 1.040 | 1.188 | 8.47 |
| 82) | | 3,3'-Dichlorob... | 0.466 | 0.474 | 0.480 | 0.469 | 0.478 | 0.467 | 0.439 | 0.468 | 2.92 |
| 83) | | Chrysene | 1.261 | 1.215 | 1.207 | 1.116 | 1.074 | 1.050 | 0.979 | 1.129 | 9.06 |
| 84) | | Bis(2-ethylhex... | 0.857 | 0.816 | 0.822 | 0.760 | 0.738 | 0.733 | 0.686 | 0.773 | 7.81 |
| 85) | c | Di-n-octyl pht... | 1.510 | 1.430 | 1.383 | 1.284 | 1.226 | 1.203 | 1.119 | 1.308 | 10.60 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.480 | 1.394 | 1.411 | 1.347 | 1.342 | 1.357 | 1.290 | 1.374 | 4.40 |
| 88) | | Benzo(b)fluora... | 1.220 | 1.158 | 1.107 | 1.056 | 1.053 | 1.073 | 1.014 | 1.097 | 6.46 |
| 89) | | Benzo(k)fluora... | 1.119 | 1.045 | 1.080 | 0.977 | 0.966 | 0.937 | 0.849 | 0.996 | 9.23 |
| 90) | C | Benzo(a)pyrene | 1.023 | 0.974 | 0.977 | 0.926 | 0.923 | 0.931 | 0.877 | 0.947 | 5.02 |
| 91) | | Dibenzo(a,h)an... | 1.250 | 1.169 | 1.189 | 1.128 | 1.111 | 1.119 | 1.047 | 1.145 | 5.68 |
| 92) | | Benzo(g,h,i)pe... | 1.239 | 1.164 | 1.182 | 1.133 | 1.148 | 1.162 | 1.113 | 1.163 | 3.46 |

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF1403
39.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.582 | 0.546 | 0.530 | 0.515 | 0.495 | 0.506 | 0.480 | 0.522 | 6.53 |
| 3) | | Pyridine | | 1.430 | 1.343 | 1.323 | 1.316 | 1.189 | 1.237 | 1.147 | 1.283 | 7.61 |
| 4) | | n-Nitrosodimet... | | 0.658 | 0.632 | 0.651 | 0.659 | 0.644 | 0.671 | 0.627 | 0.649 | 2.39 |
| 5) | S | 2-Fluorophenol | | 1.329 | 1.257 | 1.223 | 1.150 | 1.090 | 1.118 | 1.032 | 1.171 | 8.84 |
| 6) | | Aniline | | 1.587 | 1.527 | 1.495 | 1.451 | 1.267 | 1.270 | 1.066 | 1.381 | 13.42 |
| 7) | S | Phenol-d6 | | 1.773 | 1.691 | 1.643 | 1.605 | 1.483 | 1.507 | 1.407 | 1.587 | 8.09 |
| 8) | | 2-Chlorophenol | | 1.397 | 1.349 | 1.332 | 1.263 | 1.176 | 1.184 | 1.106 | 1.258 | 8.49 |
| 9) | | Benzaldehyde | | 1.101 | 1.087 | 1.017 | 0.891 | 0.828 | 0.783 | | 0.951 | 14.32 |
| 10) | C | Phenol | | 1.799 | 1.793 | 1.743 | 1.724 | 1.582 | 1.597 | 1.478 | 1.674 | 7.31 |
| 11) | | bis(2-Chloroet... | | 1.359 | 1.294 | 1.306 | 1.263 | 1.227 | 1.249 | 1.179 | 1.268 | 4.60 |
| 12) | | 1,3-Dichlorobe... | | 1.585 | 1.475 | 1.454 | 1.374 | 1.291 | 1.317 | 1.221 | 1.388 | 8.98 |
| 13) | C | 1,4-Dichlorobe... | | 1.590 | 1.534 | 1.486 | 1.391 | 1.306 | 1.326 | 1.221 | 1.408 | 9.49 |
| 14) | | 1,2-Dichlorobe... | | 1.494 | 1.429 | 1.398 | 1.294 | 1.212 | 1.214 | 1.108 | 1.307 | 10.63 |
| 15) | | Benzyl Alcohol | | 1.172 | 1.193 | 1.199 | 1.211 | 1.100 | 1.108 | 1.020 | 1.143 | 6.10 |
| 16) | | 2,2'-oxybis(1-... | | 1.906 | 1.826 | 1.815 | 1.816 | 1.666 | 1.684 | 1.549 | 1.752 | 7.01 |
| 17) | | 2-Methylphenol | | 1.092 | 1.062 | 1.072 | 1.064 | 0.998 | 1.016 | 0.942 | 1.035 | 5.07 |
| 18) | | Hexachloroethane | | 0.562 | 0.543 | 0.550 | 0.514 | 0.500 | 0.506 | 0.468 | 0.520 | 6.30 |
| 19) | P | n-Nitroso-di-n... | 1.032 | 1.029 | 1.003 | 0.986 | 0.982 | 0.883 | 0.905 | 0.848 | 0.959 | 7.30 |
| 20) | | 3+4-Methylphenols | | 1.436 | 1.427 | 1.359 | 1.351 | 1.200 | 1.198 | 1.091 | 1.294 | 10.21 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | | |
| 22) | | Acetophenone | | 0.532 | 0.508 | 0.481 | 0.450 | 0.434 | 0.441 | 0.411 | 0.465 | 9.35 |
| 23) | S | Nitrobenzene-d5 | | 0.411 | 0.401 | 0.399 | 0.375 | 0.368 | 0.379 | 0.354 | 0.384 | 5.28 |
| 24) | | Nitrobenzene | | 0.423 | 0.421 | 0.406 | 0.393 | 0.390 | 0.394 | 0.371 | 0.400 | 4.61 |
| 25) | | Isophorone | | 0.736 | 0.702 | 0.692 | 0.674 | 0.654 | 0.671 | 0.634 | 0.680 | 4.87 |
| 26) | C | 2-Nitrophenol | | 0.175 | 0.179 | 0.181 | 0.179 | 0.175 | 0.181 | 0.171 | 0.177 | 1.99 |
| 27) | | 2,4-Dimethylph... | | 0.238 | 0.236 | 0.232 | 0.223 | 0.221 | 0.227 | 0.214 | 0.227 | 3.86 |
| 28) | | bis(2-Chloroet... | | 0.461 | 0.442 | 0.430 | 0.407 | 0.398 | 0.404 | 0.379 | 0.417 | 6.80 |
| 29) | C | 2,4-Dichloroph... | | 0.307 | 0.296 | 0.287 | 0.275 | 0.272 | 0.272 | 0.255 | 0.281 | 6.20 |
| 30) | | 1,2,4-Trichlor... | | 0.346 | 0.331 | 0.325 | 0.302 | 0.298 | 0.301 | 0.283 | 0.312 | 7.15 |
| 31) | | Naphthalene | | 1.160 | 1.105 | 1.064 | 0.982 | 0.950 | 0.955 | 0.886 | 1.015 | 9.60 |
| 32) | | Benzoic acid | | 0.162 | 0.178 | 0.180 | 0.212 | 0.215 | 0.226 | 0.226 | 0.200 | 13.01 |
| 33) | | 4-Chloroaniline | | 0.390 | 0.386 | 0.370 | 0.340 | 0.333 | 0.340 | 0.311 | 0.353 | 8.36 |
| 34) | C | Hexachlorobuta... | | 0.220 | 0.214 | 0.210 | 0.193 | 0.188 | 0.190 | 0.178 | 0.199 | 7.73 |
| 35) | | Caprolactam | | 0.098 | 0.093 | 0.094 | 0.092 | 0.091 | 0.095 | 0.089 | 0.093 | 3.27 |
| 36) | C | 4-Chloro-3-met... | | 0.331 | 0.327 | 0.320 | 0.309 | 0.299 | 0.304 | 0.287 | 0.311 | 5.14 |
| 37) | | 2-Methylnaphth... | | 0.751 | 0.706 | 0.683 | 0.632 | 0.610 | 0.607 | 0.565 | 0.651 | 10.01 |
| 38) | | 1-Methylnaphth... | | 0.734 | 0.696 | 0.673 | 0.625 | 0.589 | 0.592 | 0.550 | 0.637 | 10.39 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.646 | 0.585 | 0.583 | 0.531 | 0.524 | 0.517 | 0.485 | 0.553 | 9.85 |
| 41) | P | Hexachlorocycl... | | 0.111 | 0.143 | 0.139 | 0.156 | 0.159 | 0.145 | 0.142 | 12.04 |
| 42) | S | 2,4,6-Tribromo... | 0.220 | 0.211 | 0.207 | 0.193 | 0.191 | 0.189 | 0.182 | 0.199 | 6.88 |
| 43) | C | 2,4,6-Trichlor... | 0.380 | 0.374 | 0.374 | 0.360 | 0.360 | 0.352 | 0.341 | 0.363 | 3.87 |
| 44) | | 2,4,5-Trichlor... | 0.421 | 0.417 | 0.412 | 0.389 | 0.387 | 0.390 | 0.361 | 0.397 | 5.41 |
| 45) | S | 2-Fluorobiphenyl | 1.524 | 1.396 | 1.351 | 1.172 | 1.125 | 1.110 | 1.031 | 1.244 | 14.50 |
| 46) | | 1,1'-Biphenyl | 1.690 | 1.571 | 1.565 | 1.404 | 1.368 | 1.343 | 1.244 | 1.455 | 10.80 |
| 47) | | 2-Chloronaphth... | 1.279 | 1.182 | 1.149 | 1.065 | 1.064 | 1.049 | 0.971 | 1.108 | 9.20 |
| 48) | | 2-Nitroaniline | 0.378 | 0.365 | 0.384 | 0.364 | 0.365 | 0.366 | 0.351 | 0.368 | 2.91 |
| 49) | | Acenaphthylene | 1.940 | 1.802 | 1.786 | 1.636 | 1.582 | 1.552 | 1.441 | 1.677 | 10.29 |
| 50) | | Dimethylphthalate | 1.464 | 1.358 | 1.371 | 1.261 | 1.246 | 1.244 | 1.181 | 1.304 | 7.47 |
| 51) | | 2,6-Dinitrotol... | 0.317 | 0.303 | 0.313 | 0.297 | 0.291 | 0.289 | 0.268 | 0.297 | 5.57 |
| 52) | C | Acenaphthene | 1.259 | 1.204 | 1.192 | 1.096 | 1.091 | 1.079 | 1.006 | 1.133 | 7.78 |
| 53) | | 3-Nitroaniline | 0.333 | 0.327 | 0.335 | 0.310 | 0.307 | 0.298 | 0.275 | 0.312 | 6.92 |
| 54) | P | 2,4-Dinitrophenol | | 0.109 | 0.148 | 0.147 | 0.178 | 0.170 | 0.168 | 0.153 | 16.27 |
| 55) | | Dibenzofuran | 1.904 | 1.736 | 1.715 | 1.558 | 1.502 | 1.466 | 1.344 | 1.603 | 11.92 |
| 56) | P | 4-Nitrophenol | 0.199 | 0.217 | 0.239 | 0.236 | 0.240 | 0.237 | 0.225 | 0.228 | 6.67 |
| 57) | | 2,4-Dinitrotol... | 0.414 | 0.400 | 0.417 | 0.387 | 0.387 | 0.382 | 0.351 | 0.391 | 5.77 |
| 58) | | Fluorene | 1.525 | 1.403 | 1.365 | 1.202 | 1.168 | 1.137 | 1.066 | 1.267 | 13.14 |
| 59) | | 2,3,4,6-Tetrac... | 0.322 | 0.328 | 0.326 | 0.318 | 0.308 | 0.302 | 0.288 | 0.313 | 4.61 |
| 60) | | Diethylphthalate | 1.525 | 1.417 | 1.398 | 1.287 | 1.272 | 1.246 | 1.185 | 1.333 | 8.85 |
| 61) | | 4-Chlorophenyl... | 0.739 | 0.688 | 0.669 | 0.604 | 0.583 | 0.567 | 0.528 | 0.625 | 12.01 |
| 62) | | 4-Nitroaniline | 0.335 | 0.325 | 0.328 | 0.319 | 0.316 | 0.313 | 0.297 | 0.319 | 3.86 |
| 63) | | Azobenzene | 1.498 | 1.391 | 1.380 | 1.293 | 1.251 | 1.244 | 1.163 | 1.317 | 8.55 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | 0.080 | 0.098 | 0.113 | 0.109 | 0.117 | 0.120 | 0.116 | 0.108 | 13.00 |
| 66) | c | n-Nitrosodiphe... | 0.651 | 0.630 | 0.600 | 0.559 | 0.541 | 0.541 | 0.522 | 0.578 | 8.57 |
| 67) | | 4-Bromophenyl-... | 0.227 | 0.210 | 0.209 | 0.194 | 0.191 | 0.188 | 0.180 | 0.200 | 8.14 |
| 68) | | Hexachlorobenzene | 0.251 | 0.242 | 0.232 | 0.218 | 0.209 | 0.215 | 0.208 | 0.225 | 7.54 |
| 69) | | Atrazine | 0.191 | 0.183 | 0.135 | 0.145 | 0.155 | 0.205 | 0.209 | 0.175 | 17.03 |
| 70) | C | Pentachlorophenol | 0.097 | 0.108 | 0.124 | 0.127 | 0.131 | 0.130 | 0.130 | 0.121 | 10.87 |
| 71) | | Phenanthrene | 1.096 | 1.053 | 0.986 | 0.903 | 0.868 | 0.851 | 0.820 | 0.940 | 11.33 |
| 72) | | Anthracene | 1.071 | 1.018 | 0.966 | 0.889 | 0.860 | 0.839 | 0.803 | 0.921 | 10.81 |
| 73) | | Carbazole | 1.053 | 1.009 | 0.963 | 0.876 | 0.846 | 0.834 | 0.783 | 0.909 | 11.02 |
| 74) | | Di-n-butylphth... | 1.214 | 1.177 | 1.150 | 1.074 | 1.036 | 1.023 | 0.964 | 1.091 | 8.37 |
| 75) | C | Fluoranthene | 1.256 | 1.201 | 1.141 | 1.018 | 0.962 | 0.933 | 0.867 | 1.054 | 13.92 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | | 0.634 | 0.684 | 0.653 | 0.742 | 0.953 | 0.939 | 0.768 | 18.64 |
| 78) | | Pyrene | 1.748 | 1.706 | 1.643 | 1.679 | 1.728 | 1.800 | 1.672 | 1.711 | 3.08 |
| 79) | S | Terphenyl-d14 | 1.226 | 1.185 | 1.108 | 1.123 | 1.139 | 1.190 | 1.093 | 1.152 | 4.26 |
| 80) | | Butylbenzylpht... | 0.640 | 0.638 | 0.654 | 0.690 | 0.670 | 0.681 | 0.628 | 0.657 | 3.56 |
| 81) | | Benzo(a)anthra... | 1.451 | 1.418 | 1.351 | 1.263 | 1.229 | 1.294 | 1.195 | 1.314 | 7.31 |
| 82) | | 3,3'-Dichlorob... | 0.438 | 0.431 | 0.433 | 0.402 | 0.406 | 0.416 | 0.399 | 0.418 | 3.79 |
| 83) | | Chrysene | 1.394 | 1.241 | 1.235 | 1.168 | 1.137 | 1.123 | 1.099 | 1.199 | 8.44 |
| 84) | | Bis(2-ethylhex... | 0.886 | 0.890 | 0.897 | 0.927 | 0.858 | 0.869 | 0.813 | 0.877 | 4.07 |
| 85) | c | Di-n-octyl pht... | 1.231 | 1.217 | 1.270 | 1.290 | 1.187 | 1.241 | 1.212 | 1.235 | 2.86 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.116 | 1.150 | 1.138 | 1.258 | 1.316 | 1.354 | 1.317 | 1.235 | 8.02 |
| 88) | | Benzo(b)fluora... | 1.405 | 1.352 | 1.471 | 1.263 | 1.235 | 1.233 | 1.199 | 1.308 | 7.82 |
| 89) | | Benzo(k)fluora... | 1.286 | 1.241 | 1.120 | 1.060 | 0.952 | 0.935 | 0.888 | 1.069 | 14.47 |
| 90) | C | Benzo(a)pyrene | 1.100 | 1.053 | 1.054 | 1.005 | 0.970 | 0.980 | 0.948 | 1.016 | 5.40 |
| 91) | | Dibenzo(a,h)an... | 0.941 | 0.952 | 0.944 | 1.039 | 1.074 | 1.121 | 1.077 | 1.021 | 7.30 |
| 92) | | Benzo(g,h,i)pe... | 0.941 | 0.963 | 0.954 | 1.063 | 1.122 | 1.146 | 1.120 | 1.044 | 8.55 |

(#) = Out of Range

# Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 15:23:48 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140528.D 5 =BF140529.D 10 =BF140530.D 20 =BF140531.D 40 =BF140532.D 50 =BF140533.D 60 =BF140534.D 80 =BF1405
35.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ISTD | | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.501 | 0.502 | 0.576 | 0.489 | 0.452 | 0.454 | 0.477 | 0.493 | 8.46 |
| 3) | | Pyridine | | 0.981 | 1.019 | 1.121 | 1.192 | 1.062 | 1.087 | 1.128 | 1.084 | 6.54 |
| 4) | | n-Nitrosodimet... | | 0.616 | 0.611 | 0.661 | 0.648 | 0.632 | 0.632 | 0.660 | 0.637 | 3.15 |
| 5) | S | 2-Fluorophenol | | 1.261 | 1.233 | 1.202 | 1.174 | 1.117 | 1.127 | 1.091 | 1.172 | 5.40 |
| 6) | | Aniline | | 1.159 | 1.195 | 1.133 | 1.251 | 1.042 | 1.020 | 0.835 | 1.091 | 12.73 |
| 7) | S | Phenol-d6 | | 1.729 | 1.617 | 1.559 | 1.602 | 1.465 | 1.470 | 1.407 | 1.550 | 7.14 |
| 8) | | 2-Chlorophenol | | 1.385 | 1.328 | 1.278 | 1.283 | 1.201 | 1.208 | 1.145 | 1.261 | 6.51 |
| 9) | | Benzaldehyde | | | 1.007 | 0.970 | 0.738 | 0.752 | 0.635 | | 0.820 | 19.55 |
| 10) | C | Phenol | | 1.723 | 1.648 | 1.620 | 1.667 | 1.514 | 1.490 | 1.417 | 1.583 | 6.98 |
| 11) | | bis(2-Chloroet... | | 1.292 | 1.242 | 1.214 | 1.246 | 1.146 | 1.200 | 1.138 | 1.211 | 4.56 |
| 12) | | 1,3-Dichlorobe... | | 1.600 | 1.493 | 1.433 | 1.399 | 1.345 | 1.361 | 1.288 | 1.417 | 7.31 |
| 13) | C | 1,4-Dichlorobe... | | 1.613 | 1.501 | 1.456 | 1.428 | 1.358 | 1.372 | 1.314 | 1.435 | 7.04 |
| 14) | | 1,2-Dichlorobe... | | 1.503 | 1.434 | 1.375 | 1.355 | 1.268 | 1.266 | 1.210 | 1.344 | 7.71 |
| 15) | | Benzyl Alcohol | | 1.234 | 1.174 | 1.161 | 1.224 | 1.113 | 1.090 | 1.048 | 1.149 | 5.98 |
| 16) | | 2,2'-oxybis(1-... | | 1.650 | 1.480 | 1.434 | 1.463 | 1.335 | 1.377 | 1.276 | 1.431 | 8.43 |
| 17) | | 2-Methylphenol | | 1.121 | 1.034 | 1.033 | 1.042 | 0.956 | 0.959 | 0.922 | 1.009 | 6.74 |
| 18) | | Hexachloroethane | | 0.598 | 0.545 | 0.549 | 0.537 | 0.514 | 0.510 | 0.499 | 0.536 | 6.17 |
| 19) | P | n-Nitroso-di-n... | 0.972 | 1.002 | 0.949 | 0.916 | 0.946 | 0.856 | 0.857 | 0.829 | 0.916 | 6.82 |
| 20) | | 3+4-Methylphenols | | 1.495 | 1.362 | 1.305 | 1.347 | 1.211 | 1.209 | 1.154 | 1.298 | 8.98 |
| 21) | I | Naphthalene-d8 | ISTD | | | | | | | | | |
| 22) | | Acetophenone | | 0.536 | 0.511 | 0.494 | 0.481 | 0.463 | 0.460 | 0.468 | 0.488 | 5.75 |
| 23) | S | Nitrobenzene-d5 | | 0.409 | 0.403 | 0.395 | 0.392 | 0.377 | 0.377 | 0.383 | 0.391 | 3.21 |
| 24) | | Nitrobenzene | | 0.439 | 0.409 | 0.409 | 0.401 | 0.388 | 0.391 | 0.392 | 0.404 | 4.35 |
| 25) | | Isophorone | | 0.694 | 0.654 | 0.657 | 0.662 | 0.629 | 0.634 | 0.635 | 0.652 | 3.44 |
| 26) | C | 2-Nitrophenol | | 0.178 | 0.172 | 0.185 | 0.180 | 0.178 | 0.180 | 0.180 | 0.179 | 2.17 |
| 27) | | 2,4-Dimethylph... | | 0.221 | 0.214 | 0.213 | 0.224 | 0.204 | 0.207 | 0.218 | 0.214 | 3.40 |
| 28) | | bis(2-Chloroet... | | 0.428 | 0.408 | 0.403 | 0.397 | 0.378 | 0.384 | 0.383 | 0.397 | 4.37 |
| 29) | C | 2,4-Dichloroph... | | 0.301 | 0.291 | 0.290 | 0.282 | 0.277 | 0.274 | 0.271 | 0.284 | 3.82 |
| 30) | | 1,2,4-Trichlor... | | 0.342 | 0.338 | 0.332 | 0.317 | 0.317 | 0.312 | 0.312 | 0.324 | 3.91 |
| 31) | | Naphthalene | | 1.116 | 1.075 | 1.062 | 1.013 | 0.993 | 0.983 | 0.970 | 1.030 | 5.32 |
| 32) | | Benzoic acid | | | 0.101 | 0.126 | 0.177 | 0.185 | 0.192 | 0.202 | 0.164 | 24.72 |
| 33) | | 4-Chloroaniline | | 0.308 | 0.318 | 0.309 | 0.325 | 0.303 | 0.308 | 0.289 | 0.308 | 3.71 |
| 34) | C | Hexachlorobuta... | | 0.227 | 0.225 | 0.219 | 0.212 | 0.209 | 0.207 | 0.204 | 0.215 | 4.15 |
| 35) | | Caprolactam | | 0.091 | 0.091 | 0.091 | 0.090 | 0.085 | 0.085 | 0.083 | 0.088 | 3.99 |
| 36) | C | 4-Chloro-3-met... | | 0.348 | 0.318 | 0.317 | 0.327 | 0.307 | 0.307 | 0.301 | 0.318 | 4.95 |
| 37) | | 2-Methylnaphth... | | 0.724 | 0.680 | 0.669 | 0.650 | 0.623 | 0.620 | 0.615 | 0.654 | 6.09 |
| 38) | | 1-Methylnaphth... | | 0.707 | 0.665 | 0.659 | 0.638 | 0.611 | 0.608 | 0.601 | 0.641 | 5.98 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.635 | 0.604 | 0.606 | 0.563 | 0.561 | 0.565 | 0.565 | 0.586 | 5.02 |
| 41) | P | Hexachlorocycl... | | 0.055 | 0.090 | 0.114 | 0.121 | 0.129 | 0.133 | 0.107 | 27.80 |
| 42) | S | 2,4,6-Tribromo... | 0.222 | 0.209 | 0.220 | 0.216 | 0.210 | 0.210 | 0.211 | 0.214 | 2.52 |
| 43) | C | 2,4,6-Trichlor... | 0.384 | 0.358 | 0.375 | 0.366 | 0.364 | 0.360 | 0.365 | 0.367 | 2.45 |
| 44) | | 2,4,5-Trichlor... | 0.402 | 0.396 | 0.410 | 0.404 | 0.390 | 0.397 | 0.392 | 0.399 | 1.80 |
| 45) | S | 2-Fluorobiphenyl | 1.550 | 1.402 | 1.423 | 1.291 | 1.255 | 1.240 | 1.235 | 1.342 | 8.90 |
| 46) | | 1,1'-Biphenyl | 1.666 | 1.530 | 1.563 | 1.447 | 1.427 | 1.418 | 1.403 | 1.493 | 6.50 |
| 47) | | 2-Chloronaphth... | 1.251 | 1.145 | 1.162 | 1.106 | 1.082 | 1.084 | 1.091 | 1.131 | 5.39 |
| 48) | | 2-Nitroaniline | 0.367 | 0.351 | 0.379 | 0.367 | 0.363 | 0.357 | 0.359 | 0.363 | 2.50 |
| 49) | | Acenaphthylene | 1.890 | 1.765 | 1.808 | 1.662 | 1.628 | 1.623 | 1.590 | 1.710 | 6.58 |
| 50) | | Dimethylphthalate | 1.455 | 1.329 | 1.346 | 1.299 | 1.267 | 1.270 | 1.254 | 1.317 | 5.28 |
| 51) | | 2,6-Dinitrotol... | 0.314 | 0.299 | 0.307 | 0.301 | 0.291 | 0.293 | 0.286 | 0.299 | 3.24 |
| 52) | C | Acenaphthene | 1.182 | 1.110 | 1.134 | 1.063 | 1.052 | 1.037 | 1.026 | 1.086 | 5.29 |
| 53) | | 3-Nitroaniline | 0.307 | 0.297 | 0.309 | 0.300 | 0.289 | 0.281 | 0.262 | 0.292 | 5.71 |
| 54) | P | 2,4-Dinitrophenol | | 0.057 | 0.089 | 0.140 | 0.145 | 0.150 | 0.154 | 0.122 | 32.70 |
| 55) | | Dibenzofuran | 1.898 | 1.739 | 1.739 | 1.622 | 1.559 | 1.531 | 1.509 | 1.657 | 8.53 |
| 56) | P | 4-Nitrophenol | | 0.160 | 0.195 | 0.207 | 0.212 | 0.214 | 0.208 | 0.199 | 10.31 |
| 57) | | 2,4-Dinitrotol... | 0.403 | 0.403 | 0.416 | 0.404 | 0.386 | 0.389 | 0.379 | 0.397 | 3.24 |
| 58) | | Fluorene | 1.509 | 1.409 | 1.399 | 1.295 | 1.263 | 1.224 | 1.210 | 1.330 | 8.37 |
| 59) | | 2,3,4,6-Tetrac... | 0.307 | 0.296 | 0.308 | 0.312 | 0.305 | 0.305 | 0.312 | 0.306 | 1.72 |
| 60) | | Diethylphthalate | 1.495 | 1.375 | 1.393 | 1.311 | 1.292 | 1.268 | 1.234 | 1.338 | 6.66 |
| 61) | | 4-Chlorophenyl... | 0.739 | 0.682 | 0.685 | 0.639 | 0.619 | 0.605 | 0.599 | 0.653 | 7.90 |
| 62) | | 4-Nitroaniline | 0.307 | 0.301 | 0.315 | 0.312 | 0.310 | 0.309 | 0.291 | 0.306 | 2.67 |
| 63) | | Azobenzene | 1.406 | 1.320 | 1.320 | 1.235 | 1.205 | 1.206 | 1.179 | 1.267 | 6.55 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.073 | 0.090 | 0.110 | 0.110 | 0.117 | 0.113 | 0.102 | 16.74 |
| 66) | c | n-Nitrosodiphe... | 0.632 | 0.618 | 0.597 | 0.578 | 0.577 | 0.580 | 0.558 | 0.591 | 4.39 |
| 67) | | 4-Bromophenyl-... | 0.218 | 0.215 | 0.206 | 0.200 | 0.200 | 0.205 | 0.198 | 0.206 | 3.79 |
| 68) | | Hexachlorobenzene | 0.257 | 0.240 | 0.239 | 0.233 | 0.232 | 0.236 | 0.232 | 0.238 | 3.65 |
| 69) | | Atrazine | 0.181 | 0.171 | 0.131 | 0.140 | 0.147 | 0.196 | 0.198 | 0.166 | 16.37 |
| 70) | C | Pentachlorophenol | | 0.071 | 0.090 | 0.116 | 0.115 | 0.121 | 0.118 | 0.105 | 19.24 |
| 71) | | Phenanthrene | 1.074 | 1.020 | 0.970 | 0.944 | 0.925 | 0.916 | 0.881 | 0.961 | 6.87 |
| 72) | | Anthracene | 1.038 | 0.994 | 0.958 | 0.925 | 0.905 | 0.904 | 0.859 | 0.940 | 6.47 |
| 73) | | Carbazole | 1.004 | 0.949 | 0.930 | 0.889 | 0.876 | 0.862 | 0.821 | 0.905 | 6.75 |
| 74) | | Di-n-butylphth... | 1.144 | 1.075 | 1.074 | 1.023 | 1.021 | 1.007 | 0.967 | 1.044 | 5.56 |
| 75) | C | Fluoranthene | 1.186 | 1.111 | 1.114 | 1.014 | 0.999 | 0.962 | 0.921 | 1.044 | 9.11 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | 0.268 | 0.422 | 0.296 | 0.575 | 0.734 | 1.025 | 0.751 | 0.581 | 47.31 |
| 78) | | Pyrene | 1.905 | 1.801 | 1.897 | 1.853 | 1.791 | 1.898 | 1.799 | 1.849 | 2.79 |
| 79) | S | Terphenyl-d14 | 1.351 | 1.254 | 1.308 | 1.283 | 1.228 | 1.313 | 1.254 | 1.284 | 3.31 |
| 80) | | Butylbenzylpht... | 0.676 | 0.644 | 0.694 | 0.679 | 0.655 | 0.674 | 0.641 | 0.666 | 2.96 |
| 81) | | Benzo(a)anthra... | 1.409 | 1.319 | 1.379 | 1.286 | 1.295 | 1.338 | 1.242 | 1.324 | 4.30 |
| 82) | | 3,3'-Dichlorob... | 0.375 | 0.383 | 0.393 | 0.413 | 0.406 | 0.419 | 0.394 | 0.397 | 4.03 |
| 83) | | Chrysene | 1.354 | 1.263 | 1.218 | 1.201 | 1.137 | 1.173 | 1.128 | 1.211 | 6.50 |
| 84) | | Bis(2-ethylhex... | 0.904 | 0.828 | 0.862 | 0.833 | 0.824 | 0.841 | 0.797 | 0.841 | 4.00 |
| 85) | c | Di-n-octyl pht... | 1.198 | 1.133 | 1.147 | 1.132 | 1.147 | 1.169 | 1.121 | 1.150 | 2.29 |

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.209 | 1.283 | 1.299 | 1.304 | 1.306 | 1.409 | 1.313 | 1.303 | 4.51 |
| 88) | | Benzo(b)fluora... | 1.347 | 1.256 | 1.380 | 1.186 | 1.248 | 1.207 | 1.168 | 1.256 | 6.41 |
| 89) | | Benzo(k)fluora... | 1.243 | 1.236 | 1.059 | 1.101 | 1.022 | 1.055 | 0.980 | 1.099 | 9.34 |
| 90) | C | Benzo(a)pyrene | 1.062 | 1.050 | 1.063 | 1.007 | 0.998 | 1.014 | 0.957 | 1.021 | 3.81 |
| 91) | | Dibenzo(a,h)an... | 1.015 | 1.038 | 1.063 | 1.068 | 1.075 | 1.149 | 1.064 | 1.067 | 3.90 |
| 92) | | Benzo(g,h,i)pe... | 1.033 | 1.090 | 1.078 | 1.085 | 1.094 | 1.161 | 1.083 | 1.089 | 3.48 |

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_E Calibration Date/Time: 11/12/2024 10:18

Lab File ID: BE101575.D Init. Calib. Date(s): 11/06/2024 11/06/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:51 18:02

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.131 | 1.144 | | 1.1 | |
| Benzaldehyde | 0.759 | 0.637 | | -16.1 | |
| Phenol-d6 | 1.551 | 1.521 | | -1.9 | |
| Phenol | 1.688 | 1.674 | | -0.8 | 20.0 |
| bis(2-Chloroethyl)ether | 1.397 | 1.299 | | -7.0 | |
| 2-Chlorophenol | 1.340 | 1.311 | | -2.2 | |
| 2-Methylphenol | 1.093 | 1.083 | | -0.9 | |
| 2,2-oxybis(1-Chloropropane) | 1.654 | 1.620 | | -2.1 | |
| Acetophenone | 0.453 | 0.450 | | -0.7 | |
| 3+4-Methylphenols | 1.515 | 1.436 | | -5.2 | |
| n-Nitroso-di-n-propylamine | 1.023 | 0.964 | 0.050 | -5.8 | |
| Nitrobenzene-d5 | 0.317 | 0.329 | | 3.8 | |
| Hexachloroethane | 0.500 | 0.496 | | -0.8 | |
| Nitrobenzene | 0.329 | 0.342 | | 4.0 | |
| Isophorone | 0.616 | 0.606 | | -1.6 | |
| 2-Nitrophenol | 0.175 | 0.178 | | 1.7 | 20.0 |
| 2,4-Dimethylphenol | 0.203 | 0.200 | | -1.5 | |
| bis(2-Chloroethoxy)methane | 0.377 | 0.369 | | -2.1 | |
| 2,4-Dichlorophenol | 0.288 | 0.285 | | -1.0 | 20.0 |
| Naphthalene | 1.010 | 1.004 | | -0.6 | |
| 4-Chloroaniline | 0.355 | 0.354 | | -0.3 | |
| Hexachlorobutadiene | 0.198 | 0.197 | | -0.5 | 20.0 |
| Caprolactam | 0.106 | 0.100 | | -5.7 | |
| 4-Chloro-3-methylphenol | 0.314 | 0.305 | | -2.9 | 20.0 |
| 2-Methylnaphthalene | 0.717 | 0.691 | | -3.6 | |
| Hexachlorocyclopentadiene | 0.154 | 0.169 | 0.050 | 9.7 | |
| 2,4,6-Trichlorophenol | 0.362 | 0.367 | | 1.4 | 20.0 |
| 2-Fluorobiphenyl | 1.225 | 1.272 | | 3.8 | |
| 2,4,5-Trichlorophenol | 0.403 | 0.405 | | 0.5 | |
| 1,1-Biphenyl | 1.380 | 1.417 | | 2.7 | |
| 2-Chloronaphthalene | 1.088 | 1.105 | | 1.6 | |
| 2-Nitroaniline | 0.288 | 0.314 | | 9.0 | |
| Dimethylphthalate | 1.424 | 1.379 | | -3.2 | |
| Acenaphthylene | 1.622 | 1.643 | | 1.3 | |
| 2,6-Dinitrotoluene | 0.329 | 0.331 | | 0.6 | |
| 3-Nitroaniline | 0.319 | 0.336 | | 5.3 | |
| Acenaphthene | 1.035 | 1.053 | | 1.7 | 20.0 |
| 2,4-Dinitrophenol | 0.193 | 0.200 | 0.050 | 3.6 | |
| 4-Nitrophenol | 0.264 | 0.279 | 0.050 | 5.7 | |

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_E Calibration Date/Time: 11/12/2024 10:18

Lab File ID: BE101575.D Init. Calib. Date(s): 11/06/2024 11/06/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:51 18:02

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.666 | 1.655 | | -0.7 | |
| 2,4-Dinitrotoluene | 0.462 | 0.469 | | 1.5 | |
| Diethylphthalate | 1.502 | 1.462 | | -2.7 | |
| 4-Chlorophenyl-phenylether | 0.706 | 0.688 | | -2.5 | |
| Fluorene | 1.391 | 1.403 | | 0.9 | |
| 4-Nitroaniline | 0.344 | 0.366 | | 6.4 | |
| 4,6-Dinitro-2-methylphenol | 0.119 | 0.124 | | 4.2 | |
| n-Nitrosodiphenylamine | 0.531 | 0.531 | | 0.0 | 20.0 |
| 2,4,6-Tribromophenol | 0.376 | 0.358 | | -4.8 | |
| 4-Bromophenyl-phenylether | 0.221 | 0.215 | | -2.7 | |
| Hexachlorobenzene | 0.290 | 0.280 | | -3.4 | |
| Atrazine | 0.157 | 0.151 | | -3.8 | |
| Pentachlorophenol | 0.158 | 0.160 | | 1.3 | 20.0 |
| Phenanthrene | 0.973 | 0.971 | | -0.2 | |
| Anthracene | 0.961 | 0.970 | | 0.9 | |
| Carbazole | 0.963 | 0.977 | | 1.5 | |
| Di-n-butylphthalate | 1.190 | 1.176 | | -1.2 | |
| Fluoranthene | 1.247 | 1.250 | | 0.2 | 20.0 |
| Pyrene | 1.138 | 1.143 | | 0.4 | |
| Terphenyl-d14 | 0.904 | 0.906 | | 0.2 | |
| Butylbenzylphthalate | 0.511 | 0.511 | | 0.0 | |
| 3,3-Dichlorobenzidine | 0.468 | 0.485 | | 3.6 | |
| Benzo(a)anthracene | 1.188 | 1.172 | | -1.3 | |
| Chrysene | 1.129 | 1.122 | | -0.6 | |
| Bis(2-ethylhexyl)phthalate | 0.773 | 0.758 | | -1.9 | |
| Di-n-octyl phthalate | 1.308 | 1.299 | | -0.7 | 20.0 |
| Benzo(b)fluoranthene | 1.097 | 1.086 | | -1.0 | |
| Benzo(k)fluoranthene | 0.996 | 1.026 | | 3.0 | |
| Benzo(a)pyrene | 0.947 | 0.951 | | 0.4 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.374 | 1.381 | | 0.5 | |
| Dibenzo(a,h)anthracene | 1.145 | 1.157 | | 1.0 | |
| Benzo(g,h,i)perylene | 1.163 | 1.156 | | -0.6 | |
| 1,2,4,5-Tetrachlorobenzene | 0.527 | 0.541 | | 2.7 | |
| 1,4-Dioxane | 0.421 | 0.425 | | 0.9 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.373 | 0.363 | | -2.7 | |

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 17:02

Lab File ID: BF140366.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.171 | 1.188 | | 1.5 | |
| Benzaldehyde | 0.951 | 0.861 | | -9.5 | |
| Phenol-d6 | 1.587 | 1.578 | | -0.6 | |
| Phenol | 1.674 | 1.678 | | 0.2 | 20.0 |
| bis(2-Chloroethyl)ether | 1.268 | 1.243 | | -2.0 | |
| 2-Chlorophenol | 1.258 | 1.256 | | -0.2 | |
| 2-Methylphenol | 1.035 | 1.033 | | -0.2 | |
| 2,2-oxybis(1-Chloropropane) | 1.752 | 1.678 | | -4.2 | |
| Acetophenone | 0.465 | 0.463 | | -0.4 | |
| 3+4-Methylphenols | 1.295 | 1.288 | | -0.5 | |
| n-Nitroso-di-n-propylamine | 0.959 | 0.909 | 0.050 | -5.2 | |
| Nitrobenzene-d5 | 0.384 | 0.381 | | -0.8 | |
| Hexachloroethane | 0.520 | 0.504 | | -3.1 | |
| Nitrobenzene | 0.400 | 0.401 | | 0.3 | |
| Isophorone | 0.680 | 0.661 | | -2.8 | |
| 2-Nitrophenol | 0.177 | 0.178 | | 0.6 | 20.0 |
| 2,4-Dimethylphenol | 0.227 | 0.227 | | 0.0 | |
| bis(2-Chloroethoxy)methane | 0.417 | 0.404 | | -3.1 | |
| 2,4-Dichlorophenol | 0.281 | 0.281 | | 0.0 | 20.0 |
| Naphthalene | 1.015 | 1.009 | | -0.6 | |
| 4-Chloroaniline | 0.353 | 0.327 | | -7.4 | |
| Hexachlorobutadiene | 0.199 | 0.195 | | -2.0 | 20.0 |
| Caprolactam | 0.093 | 0.094 | | 1.1 | |
| 4-Chloro-3-methylphenol | 0.311 | 0.311 | | 0.0 | 20.0 |
| 2-Methylnaphthalene | 0.651 | 0.642 | | -1.4 | |
| Hexachlorocyclopentadiene | 0.142 | 0.133 | 0.050 | -6.3 | |
| 2,4,6-Trichlorophenol | 0.363 | 0.368 | | 1.4 | 20.0 |
| 2-Fluorobiphenyl | 1.244 | 1.231 | | -1.0 | |
| 2,4,5-Trichlorophenol | 0.397 | 0.409 | | 3.0 | |
| 1,1-Biphenyl | 1.455 | 1.467 | | 0.8 | |
| 2-Chloronaphthalene | 1.108 | 1.111 | | 0.3 | |
| 2-Nitroaniline | 0.368 | 0.374 | | 1.6 | |
| Dimethylphthalate | 1.304 | 1.272 | | -2.5 | |
| Acenaphthylene | 1.677 | 1.672 | | -0.3 | |
| 2,6-Dinitrotoluene | 0.297 | 0.303 | | 2.0 | |
| 3-Nitroaniline | 0.312 | 0.313 | | 0.3 | |
| Acenaphthene | 1.133 | 1.135 | | 0.2 | 20.0 |
| 2,4-Dinitrophenol | 0.153 | 0.154 | 0.050 | 0.7 | |
| 4-Nitrophenol | 0.228 | 0.236 | 0.050 | 3.5 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 17:02

Lab File ID: BF140366.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.603 | 1.616 | | 0.8 | |
| 2,4-Dinitrotoluene | 0.391 | 0.397 | | 1.5 | |
| Diethylphthalate | 1.333 | 1.281 | | -3.9 | |
| 4-Chlorophenyl-phenylether | 0.625 | 0.604 | | -3.4 | |
| Fluorene | 1.267 | 1.256 | | -0.9 | |
| 4-Nitroaniline | 0.319 | 0.328 | | 2.8 | |
| 4,6-Dinitro-2-methylphenol | 0.108 | 0.114 | | 5.6 | |
| n-Nitrosodiphenylamine | 0.578 | 0.569 | | -1.6 | 20.0 |
| 2,4,6-Tribromophenol | 0.199 | 0.200 | | 0.5 | |
| 4-Bromophenyl-phenylether | 0.200 | 0.193 | | -3.5 | |
| Hexachlorobenzene | 0.225 | 0.223 | | -0.9 | |
| Atrazine | 0.175 | 0.164 | | -6.3 | |
| Pentachlorophenol | 0.121 | 0.124 | | 2.5 | 20.0 |
| Phenanthrene | 0.940 | 0.926 | | -1.5 | |
| Anthracene | 0.921 | 0.905 | | -1.7 | |
| Carbazole | 0.909 | 0.912 | | 0.3 | |
| Di-n-butylphthalate | 1.091 | 1.021 | | -6.4 | |
| Fluoranthene | 1.054 | 1.029 | | -2.4 | 20.0 |
| Pyrene | 1.711 | 1.783 | | 4.2 | |
| Terphenyl-d14 | 1.152 | 1.148 | | -0.3 | |
| Butylbenzylphthalate | 0.657 | 0.642 | | -2.3 | |
| 3,3-Dichlorobenzidine | 0.418 | 0.409 | | -2.2 | |
| Benzo(a)anthracene | 1.314 | 1.308 | | -0.5 | |
| Chrysene | 1.199 | 1.156 | | -3.6 | |
| Bis(2-ethylhexyl)phthalate | 0.877 | 0.791 | | -9.8 | |
| Di-n-octyl phthalate | 1.235 | 1.083 | | -12.3 | 20.0 |
| Benzo(b)fluoranthene | 1.308 | 1.240 | | -5.2 | |
| Benzo(k)fluoranthene | 1.069 | 1.043 | | -2.4 | |
| Benzo(a)pyrene | 1.016 | 1.000 | | -1.6 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.235 | 1.295 | | 4.9 | |
| Dibenzo(a,h)anthracene | 1.021 | 1.058 | | 3.6 | |
| Benzo(g,h,i)perylene | 1.044 | 1.108 | | 6.1 | |
| 1,2,4,5-Tetrachlorobenzene | 0.553 | 0.555 | | 0.4 | |
| 1,4-Dioxane | 0.522 | 0.547 | | 4.8 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.313 | 0.320 | | 2.2 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/15/2024 09:42

Lab File ID: BF140391.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.171 | 1.174 | | 0.3 | |
| Benzaldehyde | 0.951 | 0.866 | | -8.9 | |
| Phenol-d6 | 1.587 | 1.530 | | -3.6 | |
| Phenol | 1.674 | 1.610 | | -3.8 | 20.0 |
| bis(2-Chloroethyl)ether | 1.268 | 1.224 | | -3.5 | |
| 2-Chlorophenol | 1.258 | 1.239 | | -1.5 | |
| 2-Methylphenol | 1.035 | 0.992 | | -4.2 | |
| 2,2-oxybis(1-Chloropropane) | 1.752 | 1.582 | | -9.7 | |
| Acetophenone | 0.465 | 0.462 | | -0.6 | |
| 3+4-Methylphenols | 1.295 | 1.266 | | -2.2 | |
| n-Nitroso-di-n-propylamine | 0.959 | 0.883 | 0.050 | -7.9 | |
| Nitrobenzene-d5 | 0.384 | 0.381 | | -0.8 | |
| Hexachloroethane | 0.520 | 0.507 | | -2.5 | |
| Nitrobenzene | 0.400 | 0.397 | | -0.8 | |
| Isophorone | 0.680 | 0.646 | | -5.0 | |
| 2-Nitrophenol | 0.177 | 0.180 | | 1.7 | 20.0 |
| 2,4-Dimethylphenol | 0.227 | 0.221 | | -2.6 | |
| bis(2-Chloroethoxy)methane | 0.417 | 0.394 | | -5.5 | |
| 2,4-Dichlorophenol | 0.281 | 0.280 | | -0.4 | 20.0 |
| Naphthalene | 1.015 | 1.007 | | -0.8 | |
| 4-Chloroaniline | 0.353 | 0.334 | | -5.4 | |
| Hexachlorobutadiene | 0.199 | 0.197 | | -1.0 | 20.0 |
| Caprolactam | 0.093 | 0.094 | | 1.1 | |
| 4-Chloro-3-methylphenol | 0.311 | 0.310 | | -0.3 | 20.0 |
| 2-Methylnaphthalene | 0.651 | 0.633 | | -2.8 | |
| Hexachlorocyclopentadiene | 0.142 | 0.122 | 0.050 | -14.1 | |
| 2,4,6-Trichlorophenol | 0.363 | 0.368 | | 1.4 | 20.0 |
| 2-Fluorobiphenyl | 1.244 | 1.225 | | -1.5 | |
| 2,4,5-Trichlorophenol | 0.397 | 0.403 | | 1.5 | |
| 1,1-Biphenyl | 1.455 | 1.438 | | -1.2 | |
| 2-Chloronaphthalene | 1.108 | 1.095 | | -1.2 | |
| 2-Nitroaniline | 0.368 | 0.371 | | 0.8 | |
| Dimethylphthalate | 1.304 | 1.272 | | -2.5 | |
| Acenaphthylene | 1.677 | 1.677 | | 0.0 | |
| 2,6-Dinitrotoluene | 0.297 | 0.302 | | 1.7 | |
| 3-Nitroaniline | 0.312 | 0.312 | | 0.0 | |
| Acenaphthene | 1.133 | 1.124 | | -0.8 | 20.0 |
| 2,4-Dinitrophenol | 0.153 | 0.148 | 0.050 | -3.3 | |
| 4-Nitrophenol | 0.228 | 0.236 | 0.050 | 3.5 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/15/2024 09:42

Lab File ID: BF140391.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.603 | 1.595 | | -0.5 | |
| 2,4-Dinitrotoluene | 0.391 | 0.402 | | 2.8 | |
| Diethylphthalate | 1.333 | 1.292 | | -3.1 | |
| 4-Chlorophenyl-phenylether | 0.625 | 0.612 | | -2.1 | |
| Fluorene | 1.267 | 1.257 | | -0.8 | |
| 4-Nitroaniline | 0.319 | 0.335 | | 5.0 | |
| 4,6-Dinitro-2-methylphenol | 0.108 | 0.116 | | 7.4 | |
| n-Nitrosodiphenylamine | 0.578 | 0.566 | | -2.1 | 20.0 |
| 2,4,6-Tribromophenol | 0.199 | 0.198 | | -0.5 | |
| 4-Bromophenyl-phenylether | 0.200 | 0.193 | | -3.5 | |
| Hexachlorobenzene | 0.225 | 0.225 | | 0.0 | |
| Atrazine | 0.175 | 0.155 | | -11.4 | |
| Pentachlorophenol | 0.121 | 0.117 | | -3.3 | 20.0 |
| Phenanthrene | 0.940 | 0.915 | | -2.7 | |
| Anthracene | 0.921 | 0.914 | | -0.8 | |
| Carbazole | 0.909 | 0.920 | | 1.2 | |
| Di-n-butylphthalate | 1.091 | 1.028 | | -5.8 | |
| Fluoranthene | 1.054 | 1.039 | | -1.4 | 20.0 |
| Pyrene | 1.711 | 1.790 | | 4.6 | |
| Terphenyl-d14 | 1.152 | 1.158 | | 0.5 | |
| Butylbenzylphthalate | 0.657 | 0.675 | | 2.7 | |
| 3,3-Dichlorobenzidine | 0.418 | 0.425 | | 1.7 | |
| Benzo(a)anthracene | 1.314 | 1.279 | | -2.7 | |
| Chrysene | 1.199 | 1.195 | | -0.3 | |
| Bis(2-ethylhexyl)phthalate | 0.877 | 0.861 | | -1.8 | |
| Di-n-octyl phthalate | 1.235 | 1.164 | | -5.7 | 20.0 |
| Benzo(b)fluoranthene | 1.308 | 1.193 | | -8.8 | |
| Benzo(k)fluoranthene | 1.069 | 1.073 | | 0.4 | |
| Benzo(a)pyrene | 1.016 | 1.005 | | -1.1 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.235 | 1.249 | | 1.1 | |
| Dibenzo(a,h)anthracene | 1.021 | 1.024 | | 0.3 | |
| Benzo(g,h,i)perylene | 1.044 | 1.073 | | 2.8 | |
| 1,2,4,5-Tetrachlorobenzene | 0.553 | 0.546 | | -1.3 | |
| 1,4-Dioxane | 0.522 | 0.518 | | -0.8 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.313 | 0.312 | | -0.3 | |

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 09:33

Lab File ID: BF140590.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.172 | 1.119 | | -4.5 | |
| Benzaldehyde | 0.820 | 0.779 | | -5.0 | |
| Phenol-d6 | 1.550 | 1.507 | | -2.8 | |
| Phenol | 1.583 | 1.586 | | 0.2 | 20.0 |
| bis(2-Chloroethyl)ether | 1.211 | 1.180 | | -2.6 | |
| 2-Chlorophenol | 1.261 | 1.243 | | -1.4 | |
| 2-Methylphenol | 1.010 | 0.988 | | -2.2 | |
| 2,2-oxybis(1-Chloropropane) | 1.431 | 1.423 | | -0.6 | |
| Acetophenone | 0.488 | 0.461 | | -5.5 | |
| 3+4-Methylphenols | 1.298 | 1.252 | | -3.5 | |
| n-Nitroso-di-n-propylamine | 0.916 | 0.880 | 0.050 | -3.9 | |
| Nitrobenzene-d5 | 0.391 | 0.377 | | -3.6 | |
| Hexachloroethane | 0.536 | 0.520 | | -3.0 | |
| Nitrobenzene | 0.404 | 0.386 | | -4.5 | |
| Isophorone | 0.652 | 0.631 | | -3.2 | |
| 2-Nitrophenol | 0.179 | 0.180 | | 0.6 | 20.0 |
| 2,4-Dimethylphenol | 0.214 | 0.218 | | 1.9 | |
| bis(2-Chloroethoxy)methane | 0.397 | 0.394 | | -0.8 | |
| 2,4-Dichlorophenol | 0.284 | 0.282 | | -0.7 | 20.0 |
| Naphthalene | 1.030 | 1.017 | | -1.3 | |
| 4-Chloroaniline | 0.308 | 0.331 | | 7.5 | |
| Hexachlorobutadiene | 0.215 | 0.212 | | -1.4 | 20.0 |
| Caprolactam | 0.088 | 0.090 | | 2.3 | |
| 4-Chloro-3-methylphenol | 0.318 | 0.314 | | -1.3 | 20.0 |
| 2-Methylnaphthalene | 0.654 | 0.650 | | -0.6 | |
| Hexachlorocyclopentadiene | 0.107 | 0.100 | 0.050 | -6.5 | |
| 2,4,6-Trichlorophenol | 0.367 | 0.368 | | 0.3 | 20.0 |
| 2-Fluorobiphenyl | 1.342 | 1.315 | | -2.0 | |
| 2,4,5-Trichlorophenol | 0.399 | 0.405 | | 1.5 | |
| 1,1-Biphenyl | 1.493 | 1.483 | | -0.7 | |
| 2-Chloronaphthalene | 1.131 | 1.133 | | 0.2 | |
| 2-Nitroaniline | 0.363 | 0.361 | | -0.6 | |
| Dimethylphthalate | 1.317 | 1.305 | | -0.9 | |
| Acenaphthylene | 1.710 | 1.718 | | 0.5 | |
| 2,6-Dinitrotoluene | 0.299 | 0.304 | | 1.7 | |
| 3-Nitroaniline | 0.292 | 0.298 | | 2.1 | |
| Acenaphthene | 1.086 | 1.091 | | 0.5 | 20.0 |
| 2,4-Dinitrophenol | 0.122 | 0.127 | 0.050 | 4.1 | |
| 4-Nitrophenol | 0.199 | 0.190 | 0.050 | -4.5 | |

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG No.: P4722

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 09:33

Lab File ID: BF140590.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.657 | 1.654 | | -0.2 | |
| 2,4-Dinitrotoluene | 0.397 | 0.407 | | 2.5 | |
| Diethylphthalate | 1.338 | 1.312 | | -1.9 | |
| 4-Chlorophenyl-phenylether | 0.653 | 0.649 | | -0.6 | |
| Fluorene | 1.330 | 1.315 | | -1.1 | |
| 4-Nitroaniline | 0.306 | 0.308 | | 0.7 | |
| 4,6-Dinitro-2-methylphenol | 0.102 | 0.105 | | 2.9 | |
| n-Nitrosodiphenylamine | 0.591 | 0.579 | | -2.0 | 20.0 |
| 2,4,6-Tribromophenol | 0.214 | 0.210 | | -1.9 | |
| 4-Bromophenyl-phenylether | 0.206 | 0.203 | | -1.5 | |
| Hexachlorobenzene | 0.238 | 0.233 | | -2.1 | |
| Atrazine | 0.166 | 0.168 | | 1.2 | |
| Pentachlorophenol | 0.105 | 0.110 | | 4.8 | 20.0 |
| Phenanthrene | 0.961 | 0.960 | | -0.1 | |
| Anthracene | 0.940 | 0.932 | | -0.9 | |
| Carbazole | 0.905 | 0.906 | | 0.1 | |
| Di-n-butylphthalate | 1.044 | 1.047 | | 0.3 | |
| Fluoranthene | 1.044 | 1.089 | | 4.3 | 20.0 |
| Pyrene | 1.849 | 1.784 | | -3.5 | |
| Terphenyl-d14 | 1.284 | 1.204 | | -6.2 | |
| Butylbenzylphthalate | 0.666 | 0.675 | | 1.4 | |
| 3,3-Dichlorobenzidine | 0.397 | 0.378 | | -4.8 | |
| Benzo(a)anthracene | 1.324 | 1.309 | | -1.1 | |
| Chrysene | 1.211 | 1.194 | | -1.4 | |
| Bis(2-ethylhexyl)phthalate | 0.841 | 0.854 | | 1.5 | |
| Di-n-octyl phthalate | 1.150 | 1.214 | | 5.6 | 20.0 |
| Benzo(b)fluoranthene | 1.256 | 1.296 | | 3.2 | |
| Benzo(k)fluoranthene | 1.099 | 1.007 | | -8.4 | |
| Benzo(a)pyrene | 1.021 | 1.000 | | -2.1 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.303 | 1.273 | | -2.3 | |
| Dibenzo(a,h)anthracene | 1.067 | 1.042 | | -2.3 | |
| Benzo(g,h,i)perylene | 1.089 | 1.078 | | -1.0 | |
| 1,2,4,5-Tetrachlorobenzene | 0.586 | 0.586 | | 0.0 | |
| 1,4-Dioxane | 0.493 | 0.469 | | -4.9 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.306 | 0.320 | | 4.6 | |

All other compounds must meet a minimum RRF of 0.010.

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722 **Order ID:** P4722

**Client:** Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : WC-1(0-6)** | | | | | | | | |
| P4722-03 | WC-1(0-6) | SOIL | 4,4-DDE | 2.40 | JP | 1.40 | 18.1 | ug/kg |
| P4722-03 | WC-1(0-6) | SOIL | 4,4-DDD | 4.20 | J | 2.00 | 18.1 | ug/kg |
| | | | **Total Concentration:** | **6.600** | | | | |
| **Client ID : WC-2(0-6)** | | | | | | | | |
| P4722-08 | WC-2(0-6) | SOIL | Endosulfan Sulfate | 0.80 | J | 0.14 | 1.90 | ug/kg |
| | | | **Total Concentration:** | **0.800** | | | | |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 93.8 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 |
|---|---|---|---|---|
| PL092913.D | 10 | 11/07/24 08:40 | 11/07/24 17:55 | PB164749 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 1.90 | U | 1.90 | 18.1 | ug/kg |
| 319-85-7 | beta-BHC | 5.20 | U | 5.20 | 18.1 | ug/kg |
| 319-86-8 | delta-BHC | 5.00 | U | 5.00 | 18.1 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 2.00 | U | 2.00 | 18.1 | ug/kg |
| 76-44-8 | Heptachlor | 1.80 | U | 1.80 | 18.1 | ug/kg |
| 309-00-2 | Aldrin | 1.50 | U | 1.50 | 18.1 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 2.40 | U | 2.40 | 18.1 | ug/kg |
| 959-98-8 | Endosulfan I | 1.80 | U | 1.80 | 18.1 | ug/kg |
| 60-57-1 | Dieldrin | 1.60 | U | 1.60 | 18.1 | ug/kg |
| 72-55-9 | 4,4-DDE | 2.40 | JP | 1.40 | 18.1 | ug/kg |
| 72-20-8 | Endrin | 1.70 | U | 1.70 | 18.1 | ug/kg |
| 33213-65-9 | Endosulfan II | 3.20 | U | 3.20 | 18.1 | ug/kg |
| 72-54-8 | 4,4-DDD | 4.20 | J | 2.00 | 18.1 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 1.40 | U | 1.40 | 18.1 | ug/kg |
| 50-29-3 | 4,4-DDT | 1.80 | U | 1.80 | 18.1 | ug/kg |
| 72-43-5 | Methoxychlor | 4.00 | U | 4.00 | 18.1 | ug/kg |
| 53494-70-5 | Endrin ketone | 2.30 | U | 2.30 | 18.1 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 4.10 | U | 4.10 | 18.1 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 1.80 | U | 1.80 | 18.1 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 2.00 | U | 2.00 | 18.1 | ug/kg |
| 8001-35-2 | Toxaphene | 55.5 | U | 55.5 | 351 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.7 | | 10 - 148 | 99% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 16.2 | | 10 - 159 | 81% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 93.8 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 |
|---|---|---|---|---|
| PL092913.D | 10 | 11/07/24 08:40 | 11/07/24 17:55 | PB164749 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 90.1 Decanted: |
| Sample Wt/Vol: | 30.1 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 |
|---|---|---|---|---|
| PL092905.D | 1 | 11/07/24 08:40 | 11/07/24 16:04 | PB164749 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.20 | U | 0.20 | 1.90 | ug/kg |
| 319-85-7 | beta-BHC | 0.54 | U | 0.54 | 1.90 | ug/kg |
| 319-86-8 | delta-BHC | 0.52 | U | 0.52 | 1.90 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.21 | U | 0.21 | 1.90 | ug/kg |
| 76-44-8 | Heptachlor | 0.19 | U | 0.19 | 1.90 | ug/kg |
| 309-00-2 | Aldrin | 0.15 | U | 0.15 | 1.90 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.25 | U | 0.25 | 1.90 | ug/kg |
| 959-98-8 | Endosulfan I | 0.19 | U | 0.19 | 1.90 | ug/kg |
| 60-57-1 | Dieldrin | 0.17 | U | 0.17 | 1.90 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.14 | U | 0.14 | 1.90 | ug/kg |
| 72-20-8 | Endrin | 0.18 | U | 0.18 | 1.90 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.33 | U | 0.33 | 1.90 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.21 | U | 0.21 | 1.90 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.80 | J | 0.14 | 1.90 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.19 | U | 0.19 | 1.90 | ug/kg |
| 72-43-5 | Methoxychlor | 0.42 | U | 0.42 | 1.90 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.24 | U | 0.24 | 1.90 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.43 | U | 0.43 | 1.90 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.19 | U | 0.19 | 1.90 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.21 | U | 0.21 | 1.90 | ug/kg |
| 8001-35-2 | Toxaphene | 5.80 | U | 5.80 | 36.5 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 16.1 | | 10 - 148 | 81% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 15.4 | | 10 - 159 | 77% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 90.1 Decanted: |
| Sample Wt/Vol: | 30.1 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 |
|---|---|---|---|---|
| PL092905.D | 1 | 11/07/24 08:40 | 11/07/24 16:04 | PB164749 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 86.6 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 |
|---|---|---|---|---|
| PL092914.D | 10 | 11/07/24 08:40 | 11/07/24 18:09 | PB164749 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 2.10 | U | 2.10 | 19.6 | ug/kg |
| 319-85-7 | beta-BHC | 5.70 | U | 5.70 | 19.6 | ug/kg |
| 319-86-8 | delta-BHC | 5.40 | U | 5.40 | 19.6 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 2.20 | U | 2.20 | 19.6 | ug/kg |
| 76-44-8 | Heptachlor | 2.00 | U | 2.00 | 19.6 | ug/kg |
| 309-00-2 | Aldrin | 1.60 | U | 1.60 | 19.6 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 2.70 | U | 2.70 | 19.6 | ug/kg |
| 959-98-8 | Endosulfan I | 2.00 | U | 2.00 | 19.6 | ug/kg |
| 60-57-1 | Dieldrin | 1.70 | U | 1.70 | 19.6 | ug/kg |
| 72-55-9 | 4,4-DDE | 1.50 | U | 1.50 | 19.6 | ug/kg |
| 72-20-8 | Endrin | 1.80 | U | 1.80 | 19.6 | ug/kg |
| 33213-65-9 | Endosulfan II | 3.50 | U | 3.50 | 19.6 | ug/kg |
| 72-54-8 | 4,4-DDD | 2.20 | U | 2.20 | 19.6 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 1.50 | U | 1.50 | 19.6 | ug/kg |
| 50-29-3 | 4,4-DDT | 2.00 | U | 2.00 | 19.6 | ug/kg |
| 72-43-5 | Methoxychlor | 4.40 | U | 4.40 | 19.6 | ug/kg |
| 53494-70-5 | Endrin ketone | 2.50 | U | 2.50 | 19.6 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 4.50 | U | 4.50 | 19.6 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 2.00 | U | 2.00 | 19.6 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 2.20 | U | 2.20 | 19.6 | ug/kg |
| 8001-35-2 | Toxaphene | 60.3 | U | 60.3 | 381 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 18.2 | | 10 - 148 | 91% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 15.1 | | 10 - 159 | 76% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 86.6 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 |
|---|---|---|---|---|
| PL092914.D | 10 | 11/07/24 08:40 | 11/07/24 18:09 | PB164749 |

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

Comments:

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

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

# QC SUMMARY

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## Surrogate Summary

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PL092652.D | PIBLK-PL092652.D | Decachlorobiphenyl | 1 | 20 | 22.7 | 114 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.6 | 108 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 21.7 | 109 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.4 | 102 | | 77 | 126 |
| I.BLK-PL092886.D | PIBLK-PL092886.D | Decachlorobiphenyl | 1 | 20 | 20.5 | 103 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.4 | 102 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 19.2 | 96 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.5 | 98 | | 77 | 126 |
| PB164749BL | PB164749BL | Decachlorobiphenyl | 1 | 20 | 22.4 | 112 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.9 | 104 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 22.3 | 111 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.1 | 101 | | 10 | 159 |
| PB164749BS | PB164749BS | Decachlorobiphenyl | 1 | 20 | 19.3 | 96 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 18.2 | 91 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 19.1 | 96 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 16.9 | 85 | | 10 | 159 |
| P4720-01MS | JC-701-COMP-01MS | Decachlorobiphenyl | 1 | 20 | 13.5 | 67 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 15.1 | 75 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 14.3 | 72 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 10.8 | 54 | | 10 | 159 |
| P4720-01MSD | JC-701-COMP-01MSD | Decachlorobiphenyl | 1 | 20 | 13.4 | 67 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 15.2 | 76 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 14.4 | 72 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 10.9 | 55 | | 10 | 159 |
| I.BLK-PL092903.D | PIBLK-PL092903.D | Decachlorobiphenyl | 1 | 20 | 18.5 | 92 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.5 | 103 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 17.0 | 85 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.4 | 97 | | 77 | 126 |
| P4722-08 | WC-2(0-6) | Decachlorobiphenyl | 1 | 20 | 16.1 | 81 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 13.9 | 69 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 12.6 | 63 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 15.4 | 77 | | 10 | 159 |
| I.BLK-PL092911.D | PIBLK-PL092911.D | Decachlorobiphenyl | 1 | 20 | 19.1 | 96 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.0 | 100 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 17.3 | 86 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.5 | 98 | | 77 | 126 |
| P4722-03 | WC-1(0-6) | Decachlorobiphenyl | 1 | 20 | 19.7 | 99 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 1 | 20 | 14.9 | 75 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 16.6 | 83 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 16.2 | 81 | | 10 | 159 |
| P4722-13 | WC-3(0-6) | Decachlorobiphenyl | 1 | 20 | 18.2 | 91 | | 10 | 148 |

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## Surrogate Summary

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| P4722-13 | WC-3(0-6) | Tetrachloro-m-xylene | 1 | 20 | 15.1 | 76 | | 10 | 159 |
| | | Decachlorobiphenyl | 2 | 20 | 13.2 | 66 | | 10 | 148 |
| | | Tetrachloro-m-xylene | 2 | 20 | 15.1 | 76 | | 10 | 159 |
| I.BLK-PL092915.D | PIBLK-PL092915.D | Decachlorobiphenyl | 1 | 20 | 20.3 | 101 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.5 | 103 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 18.7 | 93 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.1 | 100 | | 77 | 126 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B **DataFile :** PL092900.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **JC-701-COMP-01MS** | | | | | | | | | | | |
| P4720-01MS | alpha-BHC | 18.35 | 0 | 16.4 | ug/kg | 89 | | | | 60 | 144 | |
| | beta-BHC | 18.35 | 0 | 19.0 | ug/kg | 104 | | | | 54 | 143 | |
| | delta-BHC | 18.35 | 0 | 4.60 | ug/kg | 25 | * | | | 47 | 144 | |
| | gamma-BHC (Lindane) | 18.35 | 0 | 16.7 | ug/kg | 91 | | | | 61 | 140 | |
| | Heptachlor | 18.35 | 0 | 19.3 | ug/kg | 105 | | | | 63 | 135 | |
| | Aldrin | 18.35 | 0 | 18.3 | ug/kg | 100 | | | | 49 | 139 | |
| | Heptachlor epoxide | 18.35 | 0 | 18.6 | ug/kg | 101 | | | | 32 | 180 | |
| | Endosulfan I | 18.35 | 0 | 17.9 | ug/kg | 98 | | | | 56 | 142 | |
| | Dieldrin | 18.35 | 0 | 20.8 | ug/kg | 113 | | | | 47 | 161 | |
| | 4,4'-DDE | 18.35 | 7.3 | 25.7 | ug/kg | 100 | | | | 55 | 136 | |
| | Endrin | 18.35 | 0 | 21.7 | ug/kg | 118 | | | | 57 | 139 | |
| | Endosulfan II | 18.35 | 0 | 20.0 | ug/kg | 109 | | | | 40 | 163 | |
| | 4,4'-DDD | 18.35 | 0 | 20.3 | ug/kg | 111 | | | | 37 | 192 | |
| | Endosulfan sulfate | 18.35 | 0 | 15.7 | ug/kg | 86 | | | | 62 | 139 | |
| | 4,4'-DDT | 18.35 | 14.8 | 31.9 | ug/kg | 93 | | | | 51 | 146 | |
| | Methoxychlor | 18.35 | 0 | 18.1 | ug/kg | 99 | | | | 54 | 136 | |
| | Endrin ketone | 18.35 | 0 | 18.0 | ug/kg | 98 | | | | 60 | 129 | |
| | Endrin aldehyde | 18.35 | 0 | 18.5 | ug/kg | 101 | | | | 59 | 132 | |
| | alpha-Chlordane | 18.35 | 0 | 19.2 | ug/kg | 105 | | | | 30 | 192 | |
| | gamma-Chlordane | 18.35 | 0 | 20.2 | ug/kg | 110 | | | | 44 | 175 | |

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Fax : 908 789 8922

## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B **DataFile :** PL092901.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **JC-701-COMP-01MSD** | | | | | | | | | | | |
| P4720-01MSD | alpha-BHC | 18.37 | 0 | 16.7 | ug/kg | 91 | | 2 | | 60 | 144 | 20 |
| | beta-BHC | 18.37 | 0 | 19.6 | ug/kg | 107 | | 3 | | 54 | 143 | 20 |
| | delta-BHC | 18.37 | 0 | 4.60 | ug/kg | 25 | * | 0 | | 47 | 144 | 20 |
| | gamma-BHC (Lindane) | 18.37 | 0 | 17.1 | ug/kg | 93 | | 2 | | 61 | 140 | 20 |
| | Heptachlor | 18.37 | 0 | 19.7 | ug/kg | 107 | | 2 | | 63 | 135 | 20 |
| | Aldrin | 18.37 | 0 | 18.8 | ug/kg | 102 | | 2 | | 49 | 139 | 20 |
| | Heptachlor epoxide | 18.37 | 0 | 19.0 | ug/kg | 103 | | 2 | | 32 | 180 | 20 |
| | Endosulfan I | 18.37 | 0 | 18.1 | ug/kg | 99 | | 1 | | 56 | 142 | 20 |
| | Dieldrin | 18.37 | 0 | 21.4 | ug/kg | 116 | | 3 | | 47 | 161 | 20 |
| | 4,4'-DDE | 18.37 | 7.3 | 26.2 | ug/kg | 103 | | 3 | | 55 | 136 | 20 |
| | Endrin | 18.37 | 0 | 22.0 | ug/kg | 120 | | 2 | | 57 | 139 | 20 |
| | Endosulfan II | 18.37 | 0 | 20.5 | ug/kg | 112 | | 3 | | 40 | 163 | 20 |
| | 4,4'-DDD | 18.37 | 0 | 20.5 | ug/kg | 112 | | 1 | | 37 | 192 | 20 |
| | Endosulfan sulfate | 18.37 | 0 | 16.1 | ug/kg | 88 | | 2 | | 62 | 139 | 20 |
| | 4,4'-DDT | 18.37 | 14.8 | 32.5 | ug/kg | 96 | | 3 | | 51 | 146 | 20 |
| | Methoxychlor | 18.37 | 0 | 19.4 | ug/kg | 106 | | 7 | | 54 | 136 | 20 |
| | Endrin ketone | 18.37 | 0 | 18.5 | ug/kg | 101 | | 3 | | 60 | 129 | 20 |
| | Endrin aldehyde | 18.37 | 0 | 18.8 | ug/kg | 102 | | 1 | | 59 | 132 | 20 |
| | alpha-Chlordane | 18.37 | 0 | 19.7 | ug/kg | 107 | | 2 | | 30 | 192 | 20 |
| | gamma-Chlordane | 18.37 | 0 | 20.8 | ug/kg | 113 | | 3 | | 44 | 175 | 20 |

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Fax : 908 789 8922

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B **Datafile :** PL092898.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164749BS | alpha-BHC | 16.66 | 16.1 | ug/kg | 97 | | | | 84 | 123 | |
| | beta-BHC | 16.66 | 16.7 | ug/kg | 100 | | | | 82 | 123 | |
| | delta-BHC | 16.66 | 14.3 | ug/kg | 86 | | | | 83 | 126 | |
| | gamma-BHC (Lindane) | 16.66 | 16.0 | ug/kg | 96 | | | | 83 | 125 | |
| | Heptachlor | 16.66 | 17.0 | ug/kg | 102 | | | | 83 | 122 | |
| | Aldrin | 16.66 | 16.3 | ug/kg | 98 | | | | 82 | 124 | |
| | Heptachlor epoxide | 16.66 | 16.7 | ug/kg | 100 | | | | 83 | 120 | |
| | Endosulfan I | 16.66 | 17.1 | ug/kg | 103 | | | | 81 | 124 | |
| | Dieldrin | 16.66 | 17.2 | ug/kg | 103 | | | | 85 | 121 | |
| | 4,4'-DDE | 16.66 | 17.2 | ug/kg | 103 | | | | 81 | 123 | |
| | Endrin | 16.66 | 17.8 | ug/kg | 107 | | | | 76 | 130 | |
| | Endosulfan II | 16.66 | 17.7 | ug/kg | 106 | | | | 80 | 125 | |
| | 4,4'-DDD | 16.66 | 17.7 | ug/kg | 106 | | | | 80 | 131 | |
| | Endosulfan sulfate | 16.66 | 17.1 | ug/kg | 103 | | | | 81 | 122 | |
| | 4,4'-DDT | 16.66 | 17.7 | ug/kg | 106 | | | | 70 | 129 | |
| | Methoxychlor | 16.66 | 17.1 | ug/kg | 103 | | | | 60 | 119 | |
| | Endrin ketone | 16.66 | 17.3 | ug/kg | 104 | | | | 77 | 132 | |
| | Endrin aldehyde | 16.66 | 16.7 | ug/kg | 100 | | | | 79 | 124 | |
| | alpha-Chlordane | 16.66 | 17.1 | ug/kg | 103 | | | | 84 | 120 | |
| | gamma-Chlordane | 16.66 | 17.2 | ug/kg | 103 | | | | 83 | 122 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164749BL

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab Sample ID: PB164749BL Lab File ID: PL092897.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 11/07/2024

Date Analyzed (1): 11/07/2024 Date Analyzed (2): 11/07/2024

Time Analyzed (1): 13:52 Time Analyzed (2): 13:52

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR2 ID: 0.32 (mm) GC Column (2): ZB-MR1 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 |
|---|---|---|---|---|
| PB164749BS | PB164749BS | PL092898.D | 11/07/2024 | 11/07/2024 |
| JC-701-COMP-01MS | P4720-01MS | PL092900.D | 11/07/2024 | 11/07/2024 |
| JC-701-COMP-01MSD | P4720-01MSD | PL092901.D | 11/07/2024 | 11/07/2024 |
| WC-2(0-6) | P4722-08 | PL092905.D | 11/07/2024 | 11/07/2024 |
| WC-1(0-6) | P4722-03 | PL092913.D | 11/07/2024 | 11/07/2024 |
| WC-3(0-6) | P4722-13 | PL092914.D | 11/07/2024 | 11/07/2024 |

COMMENTS:

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164749BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164749BL | Matrix: | SOIL |
| Analytical Method: | SW8081 | % 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 |
|---|---|---|---|---|
| PL092897.D | 1 | 11/07/24 08:40 | 11/07/24 13:52 | PB164749 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.18 | U | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 0.49 | U | 0.49 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 0.47 | U | 0.47 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 0.14 | U | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 0.23 | U | 0.23 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 0.15 | U | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 0.16 | U | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 0.30 | U | 0.30 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 0.13 | U | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 0.38 | U | 0.38 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 0.22 | U | 0.22 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 0.39 | U | 0.39 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 0.17 | U | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 0.19 | U | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.20 | U | 5.20 | 33.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.4 | | 10 - 148 | 112% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.9 | | 10 - 159 | 104% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164749BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164749BL | Matrix: | SOIL |
| Analytical Method: | SW8081 | % 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 |
|---|---|---|---|---|
| PL092897.D | 1 | 11/07/24 08:40 | 11/07/24 13:52 | PB164749 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 10/28/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 10/28/24 |
| Client Sample ID: | PIBLK-PL092652.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092652.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % 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 |
|---|---|---|---|---|
| PL092652.D | 1 | | 10/28/24 | PL102824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.7 | | 43 - 140 | 114% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.6 | | 77 - 126 | 108% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 10/28/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 10/28/24 |
| Client Sample ID: | PIBLK-PL092652.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092652.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % 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 |
|---|---|---|---|---|
| PL092652.D | 1 | | 10/28/24 | PL102824 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/07/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/07/24 |
| Client Sample ID: | PIBLK-PL092886.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092886.D | Matrix: | water |
| Analytical Method: | SW8081 | % 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 |
|---|---|---|---|---|
| PL092886.D | 1 | | 11/07/24 | PL110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.5 | | 43 - 140 | 103% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.4 | | 77 - 126 | 102% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/07/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/07/24 |
| Client Sample ID: | PIBLK-PL092886.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092886.D | Matrix: | water |
| Analytical Method: | SW8081 | % 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 |
|---|---|---|---|---|
| PL092886.D | 1 | | 11/07/24 | PL110724 |

| 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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/07/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/07/24 |
| Client Sample ID: | PIBLK-PL092903.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092903.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % 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 |
|---|---|---|---|---|
| PL092903.D | 1 | | 11/07/24 | PL110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 18.5 | | 43 - 140 | 92% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.5 | | 77 - 126 | 103% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/07/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/07/24 |
| Client Sample ID: | PIBLK-PL092903.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092903.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % 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 |
|---|---|---|---|---|
| PL092903.D | 1 | | 11/07/24 | PL110724 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/07/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/07/24 |
| Client Sample ID: | PIBLK-PL092911.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092911.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % 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 |
|---|---|---|---|---|
| PL092911.D | 1 | | 11/07/24 | PL110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.1 | | 43 - 140 | 96% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.0 | | 77 - 126 | 100% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/07/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/07/24 |
| Client Sample ID: | PIBLK-PL092911.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092911.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % 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 |
|---|---|---|---|---|
| PL092911.D | 1 | | 11/07/24 | PL110724 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/07/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/07/24 |
| Client Sample ID: | PIBLK-PL092915.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092915.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % 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 |
|---|---|---|---|---|
| PL092915.D | 1 | | 11/07/24 | PL110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.3 | | 43 - 140 | 101% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.5 | | 77 - 126 | 103% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/07/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/07/24 |
| Client Sample ID: | PIBLK-PL092915.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092915.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % 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 |
|---|---|---|---|---|
| PL092915.D | 1 | | 11/07/24 | PL110724 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164749BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164749BS | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092898.D | 1 | 11/07/24 08:40 | 11/07/24 14:06 | PB164749 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 16.1 | | 0.18 | 1.70 | ug/kg |
| 319-85-7 | beta-BHC | 16.7 | | 0.49 | 1.70 | ug/kg |
| 319-86-8 | delta-BHC | 14.3 | | 0.47 | 1.70 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 16.0 | | 0.19 | 1.70 | ug/kg |
| 76-44-8 | Heptachlor | 17.0 | | 0.17 | 1.70 | ug/kg |
| 309-00-2 | Aldrin | 16.3 | | 0.14 | 1.70 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 16.7 | | 0.23 | 1.70 | ug/kg |
| 959-98-8 | Endosulfan I | 17.1 | | 0.17 | 1.70 | ug/kg |
| 60-57-1 | Dieldrin | 17.2 | | 0.15 | 1.70 | ug/kg |
| 72-55-9 | 4,4-DDE | 17.2 | | 0.13 | 1.70 | ug/kg |
| 72-20-8 | Endrin | 17.8 | | 0.16 | 1.70 | ug/kg |
| 33213-65-9 | Endosulfan II | 17.7 | | 0.30 | 1.70 | ug/kg |
| 72-54-8 | 4,4-DDD | 17.7 | | 0.19 | 1.70 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 17.1 | | 0.13 | 1.70 | ug/kg |
| 50-29-3 | 4,4-DDT | 17.7 | | 0.17 | 1.70 | ug/kg |
| 72-43-5 | Methoxychlor | 17.1 | | 0.38 | 1.70 | ug/kg |
| 53494-70-5 | Endrin ketone | 17.3 | | 0.22 | 1.70 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 16.7 | | 0.39 | 1.70 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 17.1 | | 0.17 | 1.70 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 17.2 | | 0.19 | 1.70 | ug/kg |
| 8001-35-2 | Toxaphene | 5.20 | U | 5.20 | 33.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.3 | | 10 - 148 | 96% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 18.2 | | 10 - 159 | 91% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164749BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164749BS | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092898.D | 1 | 11/07/24 08:40 | 11/07/24 14:06 | PB164749 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | JC-701-COMP-01MS | SDG No.: | P4722 |
| Lab Sample ID: | P4720-01MS | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 90.6 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 |
|---|---|---|---|---|
| PL092900.D | 1 | 11/07/24 08:40 | 11/07/24 14:34 | PB164749 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 16.4 | | 0.20 | 1.90 | ug/kg |
| 319-85-7 | beta-BHC | 19.0 | | 0.54 | 1.90 | ug/kg |
| 319-86-8 | delta-BHC | 4.60 | | 0.52 | 1.90 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 16.7 | | 0.21 | 1.90 | ug/kg |
| 76-44-8 | Heptachlor | 19.3 | | 0.19 | 1.90 | ug/kg |
| 309-00-2 | Aldrin | 18.3 | | 0.15 | 1.90 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 18.6 | | 0.25 | 1.90 | ug/kg |
| 959-98-8 | Endosulfan I | 17.9 | | 0.19 | 1.90 | ug/kg |
| 60-57-1 | Dieldrin | 20.8 | | 0.17 | 1.90 | ug/kg |
| 72-55-9 | 4,4-DDE | 25.7 | | 0.14 | 1.90 | ug/kg |
| 72-20-8 | Endrin | 21.7 | | 0.18 | 1.90 | ug/kg |
| 33213-65-9 | Endosulfan II | 20.0 | | 0.33 | 1.90 | ug/kg |
| 72-54-8 | 4,4-DDD | 20.3 | | 0.21 | 1.90 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 15.7 | | 0.14 | 1.90 | ug/kg |
| 50-29-3 | 4,4-DDT | 31.9 | | 0.19 | 1.90 | ug/kg |
| 72-43-5 | Methoxychlor | 18.1 | | 0.42 | 1.90 | ug/kg |
| 53494-70-5 | Endrin ketone | 18.0 | | 0.24 | 1.90 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 18.5 | | 0.43 | 1.90 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 19.2 | | 0.19 | 1.90 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 20.2 | | 0.21 | 1.90 | ug/kg |
| 8001-35-2 | Toxaphene | 5.70 | U | 5.70 | 36.3 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 14.3 | | 10 - 148 | 72% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 15.1 | | 10 - 159 | 75% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | JC-701-COMP-01MS | SDG No.: | P4722 |
| Lab Sample ID: | P4720-01MS | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 90.6 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 |
|---|---|---|---|---|
| PL092900.D | 1 | 11/07/24 08:40 | 11/07/24 14:34 | PB164749 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | JC-701-COMP-01MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4720-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 90.6 Decanted: |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092901.D | 1 | 11/07/24 08:40 | 11/07/24 14:47 | PB164749 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 16.7 | | 0.20 | 1.90 | ug/kg |
| 319-85-7 | beta-BHC | 19.6 | | 0.54 | 1.90 | ug/kg |
| 319-86-8 | delta-BHC | 4.60 | | 0.52 | 1.90 | ug/kg |
| 58-89-9 | gamma-BHC (Lindane) | 17.1 | | 0.21 | 1.90 | ug/kg |
| 76-44-8 | Heptachlor | 19.7 | | 0.19 | 1.90 | ug/kg |
| 309-00-2 | Aldrin | 18.8 | | 0.15 | 1.90 | ug/kg |
| 1024-57-3 | Heptachlor epoxide | 19.0 | | 0.25 | 1.90 | ug/kg |
| 959-98-8 | Endosulfan I | 18.1 | | 0.19 | 1.90 | ug/kg |
| 60-57-1 | Dieldrin | 21.4 | | 0.17 | 1.90 | ug/kg |
| 72-55-9 | 4,4-DDE | 26.2 | | 0.14 | 1.90 | ug/kg |
| 72-20-8 | Endrin | 22.0 | | 0.18 | 1.90 | ug/kg |
| 33213-65-9 | Endosulfan II | 20.5 | | 0.33 | 1.90 | ug/kg |
| 72-54-8 | 4,4-DDD | 20.5 | | 0.21 | 1.90 | ug/kg |
| 1031-07-8 | Endosulfan Sulfate | 16.1 | | 0.14 | 1.90 | ug/kg |
| 50-29-3 | 4,4-DDT | 32.5 | | 0.19 | 1.90 | ug/kg |
| 72-43-5 | Methoxychlor | 19.4 | | 0.42 | 1.90 | ug/kg |
| 53494-70-5 | Endrin ketone | 18.5 | | 0.24 | 1.90 | ug/kg |
| 7421-93-4 | Endrin aldehyde | 18.8 | | 0.43 | 1.90 | ug/kg |
| 5103-71-9 | alpha-Chlordane | 19.7 | | 0.19 | 1.90 | ug/kg |
| 5103-74-2 | gamma-Chlordane | 20.8 | | 0.21 | 1.90 | ug/kg |
| 8001-35-2 | Toxaphene | 5.80 | U | 5.80 | 36.4 | ug/kg |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 14.4 | | 10 - 148 | 72% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 15.2 | | 10 - 159 | 76% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | JC-701-COMP-01MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4720-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8081 | % Solid: | 90.6 Decanted: |
| Sample Wt/Vol: | 30.04 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Pesticide-TCL |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092901.D | 1 | 11/07/24 08:40 | 11/07/24 14:47 | PB164749 |

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

Comments:

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

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

# CALIBRATION SUMMARY

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

## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 14:43 15:36

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

**LAB FILE ID:** RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.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 | 6.71 | 6.71 | 6.71 | 6.71 | 6.71 | 6.61 | 6.81 |
| 4,4'-DDE | 6.19 | 6.19 | 6.19 | 6.19 | 6.19 | 6.19 | 6.09 | 6.29 |
| 4,4'-DDT | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 6.92 | 7.12 |
| Aldrin | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.16 | 5.36 |
| alpha-BHC | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 3.90 | 4.10 |
| alpha-Chlordane | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 5.92 | 6.12 |
| beta-BHC | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.43 | 4.63 |
| Decachlorobiphenyl | 9.05 | 9.05 | 9.05 | 9.05 | 9.05 | 9.05 | 8.95 | 9.15 |
| delta-BHC | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.67 | 4.87 |
| Dieldrin | 6.35 | 6.35 | 6.35 | 6.35 | 6.34 | 6.34 | 6.24 | 6.44 |
| Endosulfan I | 6.07 | 6.07 | 6.07 | 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 | 7.16 | 7.16 | 7.16 | 7.16 | 7.16 | 7.16 | 7.06 | 7.26 |
| Endrin | 6.58 | 6.58 | 6.57 | 6.57 | 6.57 | 6.57 | 6.47 | 6.67 |
| Endrin aldehyde | 6.92 | 6.92 | 6.92 | 6.92 | 6.92 | 6.92 | 6.82 | 7.02 |
| Endrin ketone | 7.64 | 7.64 | 7.64 | 7.64 | 7.64 | 7.64 | 7.54 | 7.74 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.23 | 4.43 |
| gamma-Chlordane | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.84 | 6.04 |
| Heptachlor | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.82 | 5.02 |
| Heptachlor epoxide | 5.69 | 5.69 | 5.68 | 5.69 | 5.68 | 5.68 | 5.58 | 5.78 |
| Methoxychlor | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.40 | 7.60 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.44 | 3.64 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 14:43 15:36

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

**LAB FILE ID:** RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | 5.69 | 5.89 |
| 4,4'-DDE | 5.24 | 5.24 | 5.24 | 5.24 | 5.24 | 5.24 | 5.14 | 5.34 |
| 4,4'-DDT | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 | 5.94 | 6.14 |
| Aldrin | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.13 | 4.33 |
| alpha-BHC | 3.28 | 3.28 | 3.28 | 3.28 | 3.28 | 3.28 | 3.18 | 3.38 |
| alpha-Chlordane | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 4.95 | 5.15 |
| beta-BHC | 3.91 | 3.91 | 3.91 | 3.91 | 3.91 | 3.91 | 3.81 | 4.01 |
| Decachlorobiphenyl | 7.92 | 7.92 | 7.92 | 7.92 | 7.92 | 7.92 | 7.82 | 8.02 |
| delta-BHC | 4.14 | 4.14 | 4.14 | 4.14 | 4.14 | 4.14 | 4.04 | 4.24 |
| Dieldrin | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.27 | 5.47 |
| Endosulfan I | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.00 | 5.20 |
| Endosulfan II | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.84 | 6.04 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 6.24 | 6.44 |
| Endrin | 5.64 | 5.64 | 5.64 | 5.64 | 5.64 | 5.64 | 5.54 | 5.74 |
| Endrin aldehyde | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.02 | 6.22 |
| Endrin ketone | 6.84 | 6.84 | 6.84 | 6.84 | 6.84 | 6.84 | 6.74 | 6.94 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.61 | 3.61 | 3.61 | 3.61 | 3.51 | 3.71 |
| gamma-Chlordane | 4.98 | 4.98 | 4.98 | 4.98 | 4.98 | 4.98 | 4.88 | 5.08 |
| Heptachlor | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.85 | 4.05 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.63 | 4.83 |
| Methoxychlor | 6.61 | 6.62 | 6.62 | 6.62 | 6.61 | 6.61 | 6.51 | 6.71 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.68 | 2.88 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 14:43 15:36

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

**LAB FILE ID:** **CF 100 =** PL092655.D **CF 075 =** PL092656.D

**CF 050 =** PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 1810270000 | 1801980000 | 1817980000 | 1967770000 | 2199620000 | 1919520000 | 9 |
| 4,4'-DDE | 2254070000 | 2226390000 | 2230050000 | 2402470000 | 2732960000 | 2369190000 | 9 |
| 4,4'-DDT | 1948940000 | 1933390000 | 1940720000 | 2113460000 | 2412250000 | 2069750000 | 10 |
| Aldrin | 2847480000 | 2802990000 | 2807290000 | 3047230000 | 3502400000 | 3001480000 | 10 |
| alpha-BHC | 3356530000 | 3271880000 | 3230400000 | 3397090000 | 3701950000 | 3391570000 | 5 |
| alpha-Chlordane | 2486640000 | 2469090000 | 2489960000 | 2701720000 | 3093310000 | 2648140000 | 10 |
| beta-BHC | 1343260000 | 1339050000 | 1368530000 | 1491800000 | 1684660000 | 1445460000 | 10 |
| Decachlorobiphenyl | 1738840000 | 1756630000 | 1819720000 | 1998760000 | 2308800000 | 1924550000 | 12 |
| delta-BHC | 3067660000 | 2980040000 | 2949010000 | 3119670000 | 3533000000 | 3129870000 | 8 |
| Dieldrin | 2486930000 | 2456960000 | 2476030000 | 2679410000 | 3078050000 | 2635480000 | 10 |
| Endosulfan I | 2320690000 | 2313950000 | 2348370000 | 2546170000 | 2977620000 | 2501360000 | 11 |
| Endosulfan II | 2159880000 | 2160930000 | 2205230000 | 2449960000 | 2943170000 | 2383830000 | 14 |
| Endosulfan sulfate | 1974140000 | 1979440000 | 2024740000 | 2239840000 | 2633550000 | 2170340000 | 13 |
| Endrin | 2111540000 | 2103000000 | 2121260000 | 2324460000 | 2723040000 | 2276660000 | 12 |
| Endrin aldehyde | 1712300000 | 1718280000 | 1758160000 | 1955910000 | 2245210000 | 1877970000 | 12 |
| Endrin ketone | 2253830000 | 2246660000 | 2273910000 | 2471090000 | 2868570000 | 2422810000 | 11 |
| gamma-BHC (Lindane) | 3198960000 | 3133030000 | 3104430000 | 3278360000 | 3583040000 | 3259560000 | 6 |
| gamma-Chlordane | 2496700000 | 2477960000 | 2491940000 | 2703470000 | 3133120000 | 2660640000 | 11 |
| Heptachlor | 2817300000 | 2795570000 | 2829220000 | 3064000000 | 3509480000 | 3003110000 | 10 |
| Heptachlor epoxide | 2536240000 | 2521530000 | 2566410000 | 2821600000 | 3361270000 | 2761410000 | 13 |
| Methoxychlor | 1040530000 | 1050870000 | 1078280000 | 1189160000 | 1341160000 | 1140000000 | 11 |
| Tetrachloro-m-xylene | 2319350000 | 2304070000 | 2328420000 | 2512350000 | 2786990000 | 2450240000 | 8 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L

**Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 14:43 15:36

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

**LAB FILE ID:** **CF 100 =** PL092655.D **CF 075 =** PL092656.D

**CF 050 =** PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 2614880000 | 2506250000 | 2443430000 | 2489210000 | 2396540000 | 2490060000 | 3 |
| 4,4'-DDE | 3334990000 | 3225880000 | 3154950000 | 3209960000 | 3182260000 | 3221610000 | 2 |
| 4,4'-DDT | 2797500000 | 2713050000 | 2637310000 | 2653690000 | 2609750000 | 2682260000 | 3 |
| Aldrin | 3840860000 | 3705070000 | 3619180000 | 3619340000 | 3516600000 | 3660210000 | 3 |
| alpha-BHC | 4282500000 | 4089170000 | 3973860000 | 3934480000 | 3670850000 | 3990170000 | 6 |
| alpha-Chlordane | 3409310000 | 3303380000 | 3254510000 | 3329310000 | 3333630000 | 3326030000 | 2 |
| beta-BHC | 1625150000 | 1594840000 | 1591160000 | 1661990000 | 1758110000 | 1646250000 | 4 |
| Decachlorobiphenyl | 2606810000 | 2575500000 | 2605540000 | 2793460000 | 3064890000 | 2729240000 | 8 |
| delta-BHC | 4088000000 | 3924730000 | 3802680000 | 3782230000 | 3618150000 | 3843150000 | 5 |
| Dieldrin | 3483370000 | 3364390000 | 3290100000 | 3303460000 | 3260200000 | 3340300000 | 3 |
| Endosulfan I | 3111480000 | 3032780000 | 2993580000 | 3072340000 | 3055530000 | 3053140000 | 1 |
| Endosulfan II | 2881520000 | 2813750000 | 2779930000 | 2861240000 | 2829950000 | 2833280000 | 1 |
| Endosulfan sulfate | 2707530000 | 2646200000 | 2623690000 | 2712350000 | 2794620000 | 2696880000 | 2 |
| Endrin | 2969490000 | 2878380000 | 2828080000 | 2876210000 | 2912860000 | 2893010000 | 2 |
| Endrin aldehyde | 2273700000 | 2244250000 | 2230130000 | 2333460000 | 2454860000 | 2307280000 | 4 |
| Endrin ketone | 3089790000 | 3023040000 | 3013060000 | 3097240000 | 3120850000 | 3068800000 | 2 |
| gamma-BHC (Lindane) | 4083950000 | 3934430000 | 3833920000 | 3828430000 | 3616530000 | 3859450000 | 4 |
| gamma-Chlordane | 3470230000 | 3355710000 | 3294030000 | 3342020000 | 3346470000 | 3361690000 | 2 |
| Heptachlor | 3876200000 | 3766580000 | 3709120000 | 3779090000 | 3738650000 | 3773930000 | 2 |
| Heptachlor epoxide | 3405420000 | 3318630000 | 3272090000 | 3352830000 | 3358060000 | 3341410000 | 1 |
| Methoxychlor | 1400820000 | 1385450000 | 1393920000 | 1470360000 | 1489590000 | 1428030000 | 3 |
| Tetrachloro-m-xylene | 2724750000 | 2661560000 | 2643180000 | 2728430000 | 2847900000 | 2721160000 | 3 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

**GC Column:** ZB-MR2 **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 | 23962400 |
| | | 2 | 6.44 | 6.34 | 6.54 | 13823600 |
| | | 3 | 7.06 | 6.96 | 7.16 | 79159800 |
| | | 4 | 7.15 | 7.05 | 7.25 | 59803700 |
| | | 5 | 7.93 | 7.83 | 8.03 | 45329200 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

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

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Toxaphene | 500 | 1 | 5.01 | 4.91 | 5.11 | 19952700 |
| | | 2 | 5.33 | 5.23 | 5.43 | 19749600 |
| | | 3 | 6.61 | 6.51 | 6.71 | 70222500 |
| | | 4 | 6.73 | 6.63 | 6.83 | 98337700 |
| | | 5 | 7.05 | 6.95 | 7.15 | 65479700 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/07/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 11:21 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.00 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.78 | 4.77 | 4.67 | 4.87 | -0.01 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.00 |
| 4,4'-DDE | 6.20 | 6.19 | 6.09 | 6.29 | -0.01 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Endosulfan II | 6.80 | 6.79 | 6.69 | 6.89 | -0.01 |
| 4,4'-DDD | 6.71 | 6.71 | 6.61 | 6.81 | 0.00 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.03 | 7.02 | 6.92 | 7.12 | -0.01 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Endrin ketone | 7.65 | 7.64 | 7.54 | 7.74 | -0.01 |
| Endrin aldehyde | 6.93 | 6.92 | 6.82 | 7.02 | -0.01 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/07/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 11:21 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| alpha-BHC | 3.28 | 3.28 | 3.18 | 3.38 | 0.00 |
| beta-BHC | 3.91 | 3.91 | 3.81 | 4.01 | 0.00 |
| delta-BHC | 4.14 | 4.14 | 4.04 | 4.24 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Aldrin | 4.23 | 4.23 | 4.13 | 4.33 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endosulfan I | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Dieldrin | 5.37 | 5.37 | 5.27 | 5.47 | 0.00 |
| 4,4'-DDE | 5.24 | 5.24 | 5.14 | 5.34 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Endosulfan II | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |
| 4,4'-DDD | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.01 |
| Endrin ketone | 6.84 | 6.84 | 6.74 | 6.94 | 0.00 |
| Endrin aldehyde | 6.12 | 6.12 | 6.02 | 6.22 | 0.00 |
| alpha-Chlordane | 5.05 | 5.05 | 4.95 | 5.15 | 0.00 |
| gamma-Chlordane | 4.98 | 4.98 | 4.88 | 5.08 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/07/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092888.D **Time Analyzed:** 11:21

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.713 | 6.610 | 6.810 | 49.380 | 50.000 | -1.2 |
| 4,4'-DDE | 6.195 | 6.093 | 6.293 | 46.780 | 50.000 | -6.4 |
| 4,4'-DDT | 7.026 | 6.923 | 7.123 | 46.720 | 50.000 | -6.6 |
| Aldrin | 5.261 | 5.158 | 5.358 | 47.470 | 50.000 | -5.1 |
| alpha-BHC | 3.998 | 3.896 | 4.096 | 48.980 | 50.000 | -2.0 |
| alpha-Chlordane | 6.022 | 5.919 | 6.119 | 46.630 | 50.000 | -6.7 |
| beta-BHC | 4.528 | 4.425 | 4.625 | 48.580 | 50.000 | -2.8 |
| Decachlorobiphenyl | 9.059 | 8.954 | 9.154 | 46.020 | 50.000 | -8.0 |
| delta-BHC | 4.775 | 4.672 | 4.872 | 48.390 | 50.000 | -3.2 |
| Dieldrin | 6.347 | 6.245 | 6.445 | 45.990 | 50.000 | -8.0 |
| Endosulfan I | 6.072 | 5.970 | 6.170 | 46.130 | 50.000 | -7.7 |
| Endosulfan II | 6.797 | 6.694 | 6.894 | 44.890 | 50.000 | -10.2 |
| Endosulfan sulfate | 7.161 | 7.058 | 7.258 | 45.940 | 50.000 | -8.1 |
| Endrin | 6.577 | 6.474 | 6.674 | 45.550 | 50.000 | -8.9 |
| Endrin aldehyde | 6.927 | 6.824 | 7.024 | 47.550 | 50.000 | -4.9 |
| Endrin ketone | 7.647 | 7.543 | 7.743 | 45.940 | 50.000 | -8.1 |
| gamma-BHC (Lindane) | 4.330 | 4.228 | 4.428 | 48.790 | 50.000 | -2.4 |
| gamma-Chlordane | 5.943 | 5.841 | 6.041 | 46.570 | 50.000 | -6.9 |
| Heptachlor | 4.919 | 4.817 | 5.017 | 47.760 | 50.000 | -4.5 |
| Heptachlor epoxide | 5.686 | 5.584 | 5.784 | 47.690 | 50.000 | -4.6 |
| Methoxychlor | 7.502 | 7.399 | 7.599 | 47.810 | 50.000 | -4.4 |
| Tetrachloro-m-xylene | 3.542 | 3.440 | 3.640 | 48.470 | 50.000 | -3.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/07/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092888.D **Time Analyzed:** 11:21

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.790 | 5.689 | 5.889 | 52.090 | 50.000 | 4.2 |
| 4,4'-DDE | 5.235 | 5.135 | 5.335 | 50.820 | 50.000 | 1.6 |
| 4,4'-DDT | 6.040 | 5.940 | 6.140 | 50.770 | 50.000 | 1.5 |
| Aldrin | 4.230 | 4.129 | 4.329 | 50.690 | 50.000 | 1.4 |
| alpha-BHC | 3.281 | 3.181 | 3.381 | 50.710 | 50.000 | 1.4 |
| alpha-Chlordane | 5.046 | 4.945 | 5.145 | 49.960 | 50.000 | -0.1 |
| beta-BHC | 3.911 | 3.810 | 4.010 | 49.800 | 50.000 | -0.4 |
| Decachlorobiphenyl | 7.917 | 7.816 | 8.016 | 46.840 | 50.000 | -6.3 |
| delta-BHC | 4.140 | 4.039 | 4.239 | 51.070 | 50.000 | 2.1 |
| Dieldrin | 5.367 | 5.266 | 5.466 | 50.630 | 50.000 | 1.3 |
| Endosulfan I | 5.102 | 5.002 | 5.202 | 48.660 | 50.000 | -2.7 |
| Endosulfan II | 5.936 | 5.836 | 6.036 | 51.680 | 50.000 | 3.4 |
| Endosulfan sulfate | 6.339 | 6.238 | 6.438 | 50.070 | 50.000 | 0.1 |
| Endrin | 5.642 | 5.541 | 5.741 | 51.530 | 50.000 | 3.1 |
| Endrin aldehyde | 6.116 | 6.015 | 6.215 | 49.630 | 50.000 | -0.7 |
| Endrin ketone | 6.844 | 6.743 | 6.943 | 48.910 | 50.000 | -2.2 |
| gamma-BHC (Lindane) | 3.611 | 3.511 | 3.711 | 50.380 | 50.000 | 0.8 |
| gamma-Chlordane | 4.982 | 4.882 | 5.082 | 50.080 | 50.000 | 0.2 |
| Heptachlor | 3.950 | 3.849 | 4.049 | 50.240 | 50.000 | 0.5 |
| Heptachlor epoxide | 4.732 | 4.632 | 4.832 | 50.240 | 50.000 | 0.5 |
| Methoxychlor | 6.615 | 6.515 | 6.715 | 49.970 | 50.000 | -0.1 |
| Tetrachloro-m-xylene | 2.778 | 2.678 | 2.878 | 49.610 | 50.000 | -0.8 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/07/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 15:29 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.00 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.77 | 4.77 | 4.67 | 4.87 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.00 |
| 4,4'-DDE | 6.19 | 6.19 | 6.09 | 6.29 | 0.00 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Endosulfan II | 6.80 | 6.79 | 6.69 | 6.89 | -0.01 |
| 4,4'-DDD | 6.71 | 6.71 | 6.61 | 6.81 | 0.00 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.03 | 7.02 | 6.92 | 7.12 | -0.01 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Endrin ketone | 7.65 | 7.64 | 7.54 | 7.74 | -0.01 |
| Endrin aldehyde | 6.93 | 6.92 | 6.82 | 7.02 | -0.01 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/07/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 15:29 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| alpha-BHC | 3.28 | 3.28 | 3.18 | 3.38 | 0.00 |
| beta-BHC | 3.91 | 3.91 | 3.81 | 4.01 | 0.00 |
| delta-BHC | 4.14 | 4.14 | 4.04 | 4.24 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Aldrin | 4.23 | 4.23 | 4.13 | 4.33 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endosulfan I | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Dieldrin | 5.37 | 5.37 | 5.27 | 5.47 | 0.00 |
| 4,4'-DDE | 5.24 | 5.24 | 5.14 | 5.34 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Endosulfan II | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |
| 4,4'-DDD | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.00 |
| Endrin ketone | 6.85 | 6.84 | 6.74 | 6.94 | 0.00 |
| Endrin aldehyde | 6.12 | 6.12 | 6.02 | 6.22 | 0.00 |
| alpha-Chlordane | 5.05 | 5.05 | 4.95 | 5.15 | 0.00 |
| gamma-Chlordane | 4.98 | 4.98 | 4.88 | 5.08 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/07/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092904.D **Time Analyzed:** 15:29

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.713 | 6.610 | 6.810 | 46.380 | 50.000 | -7.2 |
| 4,4'-DDE | 6.194 | 6.093 | 6.293 | 45.140 | 50.000 | -9.7 |
| 4,4'-DDT | 7.027 | 6.923 | 7.123 | 42.890 | 50.000 | -14.2 |
| Aldrin | 5.259 | 5.158 | 5.358 | 45.730 | 50.000 | -8.5 |
| alpha-BHC | 3.998 | 3.896 | 4.096 | 47.690 | 50.000 | -4.6 |
| alpha-Chlordane | 6.022 | 5.919 | 6.119 | 45.000 | 50.000 | -10.0 |
| beta-BHC | 4.528 | 4.425 | 4.625 | 47.930 | 50.000 | -4.1 |
| Decachlorobiphenyl | 9.059 | 8.954 | 9.154 | 45.750 | 50.000 | -8.5 |
| delta-BHC | 4.774 | 4.672 | 4.872 | 47.810 | 50.000 | -4.4 |
| Dieldrin | 6.347 | 6.245 | 6.445 | 44.400 | 50.000 | -11.2 |
| Endosulfan I | 6.072 | 5.970 | 6.170 | 44.450 | 50.000 | -11.1 |
| Endosulfan II | 6.797 | 6.694 | 6.894 | 42.390 | 50.000 | -15.2 |
| Endosulfan sulfate | 7.161 | 7.058 | 7.258 | 43.220 | 50.000 | -13.6 |
| Endrin | 6.577 | 6.474 | 6.674 | 42.920 | 50.000 | -14.2 |
| Endrin aldehyde | 6.927 | 6.824 | 7.024 | 44.140 | 50.000 | -11.7 |
| Endrin ketone | 7.646 | 7.543 | 7.743 | 43.210 | 50.000 | -13.6 |
| gamma-BHC (Lindane) | 4.330 | 4.228 | 4.428 | 48.200 | 50.000 | -3.6 |
| gamma-Chlordane | 5.943 | 5.841 | 6.041 | 45.360 | 50.000 | -9.3 |
| Heptachlor | 4.919 | 4.817 | 5.017 | 46.410 | 50.000 | -7.2 |
| Heptachlor epoxide | 5.687 | 5.584 | 5.784 | 45.780 | 50.000 | -8.4 |
| Methoxychlor | 7.503 | 7.399 | 7.599 | 43.270 | 50.000 | -13.5 |
| Tetrachloro-m-xylene | 3.542 | 3.440 | 3.640 | 47.550 | 50.000 | -4.9 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/07/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092904.D **Time Analyzed:** 15:29

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.790 | 5.689 | 5.889 | 49.190 | 50.000 | -1.6 |
| 4,4'-DDE | 5.235 | 5.135 | 5.335 | 50.300 | 50.000 | 0.6 |
| 4,4'-DDT | 6.041 | 5.940 | 6.140 | 44.020 | 50.000 | -12.0 |
| Aldrin | 4.230 | 4.129 | 4.329 | 50.680 | 50.000 | 1.4 |
| alpha-BHC | 3.281 | 3.181 | 3.381 | 51.060 | 50.000 | 2.1 |
| alpha-Chlordane | 5.046 | 4.945 | 5.145 | 48.510 | 50.000 | -3.0 |
| beta-BHC | 3.911 | 3.810 | 4.010 | 49.650 | 50.000 | -0.7 |
| Decachlorobiphenyl | 7.917 | 7.816 | 8.016 | 40.370 | 50.000 | -19.3 |
| delta-BHC | 4.140 | 4.039 | 4.239 | 51.370 | 50.000 | 2.7 |
| Dieldrin | 5.367 | 5.266 | 5.466 | 48.730 | 50.000 | -2.5 |
| Endosulfan I | 5.102 | 5.002 | 5.202 | 47.480 | 50.000 | -5.0 |
| Endosulfan II | 5.937 | 5.836 | 6.036 | 47.060 | 50.000 | -5.9 |
| Endosulfan sulfate | 6.339 | 6.238 | 6.438 | 46.300 | 50.000 | -7.4 |
| Endrin | 5.642 | 5.541 | 5.741 | 46.330 | 50.000 | -7.3 |
| Endrin aldehyde | 6.116 | 6.015 | 6.215 | 44.110 | 50.000 | -11.8 |
| Endrin ketone | 6.845 | 6.743 | 6.943 | 43.580 | 50.000 | -12.8 |
| gamma-BHC (Lindane) | 3.611 | 3.511 | 3.711 | 49.880 | 50.000 | -0.2 |
| gamma-Chlordane | 4.983 | 4.882 | 5.082 | 48.040 | 50.000 | -3.9 |
| Heptachlor | 3.950 | 3.849 | 4.049 | 49.860 | 50.000 | -0.3 |
| Heptachlor epoxide | 4.732 | 4.632 | 4.832 | 47.410 | 50.000 | -5.2 |
| Methoxychlor | 6.616 | 6.515 | 6.715 | 44.210 | 50.000 | -11.6 |
| Tetrachloro-m-xylene | 2.778 | 2.678 | 2.878 | 50.400 | 50.000 | 0.8 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/07/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 17:41 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.00 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.78 | 4.77 | 4.67 | 4.87 | -0.01 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | 0.00 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.00 |
| 4,4'-DDE | 6.20 | 6.19 | 6.09 | 6.29 | -0.01 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Endosulfan II | 6.80 | 6.79 | 6.69 | 6.89 | -0.01 |
| 4,4'-DDD | 6.71 | 6.71 | 6.61 | 6.81 | 0.00 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.03 | 7.02 | 6.92 | 7.12 | -0.01 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Endrin ketone | 7.65 | 7.64 | 7.54 | 7.74 | -0.01 |
| Endrin aldehyde | 6.93 | 6.92 | 6.82 | 7.02 | -0.01 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/07/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 17:41 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| alpha-BHC | 3.28 | 3.28 | 3.18 | 3.38 | 0.00 |
| beta-BHC | 3.91 | 3.91 | 3.81 | 4.01 | 0.00 |
| delta-BHC | 4.14 | 4.14 | 4.04 | 4.24 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Aldrin | 4.23 | 4.23 | 4.13 | 4.33 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endosulfan I | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Dieldrin | 5.37 | 5.37 | 5.27 | 5.47 | 0.00 |
| 4,4'-DDE | 5.24 | 5.24 | 5.14 | 5.34 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Endosulfan II | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |
| 4,4'-DDD | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.01 |
| Endrin ketone | 6.85 | 6.84 | 6.74 | 6.94 | 0.00 |
| Endrin aldehyde | 6.12 | 6.12 | 6.02 | 6.22 | 0.00 |
| alpha-Chlordane | 5.05 | 5.05 | 4.95 | 5.15 | 0.00 |
| gamma-Chlordane | 4.98 | 4.98 | 4.88 | 5.08 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/07/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092912.D **Time Analyzed:** 17:41

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.712 | 6.610 | 6.810 | 47.210 | 50.000 | -5.6 |
| 4,4'-DDE | 6.195 | 6.093 | 6.293 | 45.000 | 50.000 | -10.0 |
| 4,4'-DDT | 7.025 | 6.923 | 7.123 | 43.020 | 50.000 | -14.0 |
| Aldrin | 5.259 | 5.158 | 5.358 | 45.590 | 50.000 | -8.8 |
| alpha-BHC | 3.998 | 3.896 | 4.096 | 48.270 | 50.000 | -3.5 |
| alpha-Chlordane | 6.021 | 5.919 | 6.119 | 44.800 | 50.000 | -10.4 |
| beta-BHC | 4.528 | 4.425 | 4.625 | 47.790 | 50.000 | -4.4 |
| Decachlorobiphenyl | 9.058 | 8.954 | 9.154 | 44.670 | 50.000 | -10.7 |
| delta-BHC | 4.775 | 4.672 | 4.872 | 47.530 | 50.000 | -4.9 |
| Dieldrin | 6.347 | 6.245 | 6.445 | 44.420 | 50.000 | -11.2 |
| Endosulfan I | 6.072 | 5.970 | 6.170 | 44.500 | 50.000 | -11.0 |
| Endosulfan II | 6.796 | 6.694 | 6.894 | 42.710 | 50.000 | -14.6 |
| Endosulfan sulfate | 7.161 | 7.058 | 7.258 | 43.250 | 50.000 | -13.5 |
| Endrin | 6.576 | 6.474 | 6.674 | 43.250 | 50.000 | -13.5 |
| Endrin aldehyde | 6.926 | 6.824 | 7.024 | 43.230 | 50.000 | -13.5 |
| Endrin ketone | 7.646 | 7.543 | 7.743 | 43.280 | 50.000 | -13.4 |
| gamma-BHC (Lindane) | 4.330 | 4.228 | 4.428 | 48.250 | 50.000 | -3.5 |
| gamma-Chlordane | 5.942 | 5.841 | 6.041 | 45.330 | 50.000 | -9.3 |
| Heptachlor | 4.918 | 4.817 | 5.017 | 46.270 | 50.000 | -7.5 |
| Heptachlor epoxide | 5.685 | 5.584 | 5.784 | 45.430 | 50.000 | -9.1 |
| Methoxychlor | 7.502 | 7.399 | 7.599 | 43.320 | 50.000 | -13.4 |
| Tetrachloro-m-xylene | 3.542 | 3.440 | 3.640 | 48.110 | 50.000 | -3.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/07/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092912.D **Time Analyzed:** 17:41

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.790 | 5.689 | 5.889 | 51.020 | 50.000 | 2.0 |
| 4,4'-DDE | 5.235 | 5.135 | 5.335 | 50.380 | 50.000 | 0.8 |
| 4,4'-DDT | 6.041 | 5.940 | 6.140 | 45.260 | 50.000 | -9.5 |
| Aldrin | 4.229 | 4.129 | 4.329 | 51.110 | 50.000 | 2.2 |
| alpha-BHC | 3.281 | 3.181 | 3.381 | 51.580 | 50.000 | 3.2 |
| alpha-Chlordane | 5.046 | 4.945 | 5.145 | 49.410 | 50.000 | -1.2 |
| beta-BHC | 3.911 | 3.810 | 4.010 | 50.540 | 50.000 | 1.1 |
| Decachlorobiphenyl | 7.917 | 7.816 | 8.016 | 41.590 | 50.000 | -16.8 |
| delta-BHC | 4.139 | 4.039 | 4.239 | 51.690 | 50.000 | 3.4 |
| Dieldrin | 5.366 | 5.266 | 5.466 | 48.970 | 50.000 | -2.1 |
| Endosulfan I | 5.102 | 5.002 | 5.202 | 47.480 | 50.000 | -5.0 |
| Endosulfan II | 5.937 | 5.836 | 6.036 | 47.730 | 50.000 | -4.5 |
| Endosulfan sulfate | 6.339 | 6.238 | 6.438 | 46.530 | 50.000 | -6.9 |
| Endrin | 5.642 | 5.541 | 5.741 | 48.020 | 50.000 | -4.0 |
| Endrin aldehyde | 6.116 | 6.015 | 6.215 | 45.950 | 50.000 | -8.1 |
| Endrin ketone | 6.845 | 6.743 | 6.943 | 45.130 | 50.000 | -9.7 |
| gamma-BHC (Lindane) | 3.611 | 3.511 | 3.711 | 50.980 | 50.000 | 2.0 |
| gamma-Chlordane | 4.982 | 4.882 | 5.082 | 49.210 | 50.000 | -1.6 |
| Heptachlor | 3.950 | 3.849 | 4.049 | 50.550 | 50.000 | 1.1 |
| Heptachlor epoxide | 4.732 | 4.632 | 4.832 | 49.550 | 50.000 | -0.9 |
| Methoxychlor | 6.615 | 6.515 | 6.715 | 44.500 | 50.000 | -11.0 |
| Tetrachloro-m-xylene | 2.778 | 2.678 | 2.878 | 50.440 | 50.000 | 0.9 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/07/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 18:51 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.00 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.78 | 4.77 | 4.67 | 4.87 | -0.01 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.00 |
| 4,4'-DDE | 6.19 | 6.19 | 6.09 | 6.29 | 0.00 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Endosulfan II | 6.80 | 6.79 | 6.69 | 6.89 | -0.01 |
| 4,4'-DDD | 6.71 | 6.71 | 6.61 | 6.81 | 0.00 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.03 | 7.02 | 6.92 | 7.12 | -0.01 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Endrin ketone | 7.65 | 7.64 | 7.54 | 7.74 | 0.00 |
| Endrin aldehyde | 6.93 | 6.92 | 6.82 | 7.02 | -0.01 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/07/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 18:51 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| alpha-BHC | 3.28 | 3.28 | 3.18 | 3.38 | 0.00 |
| beta-BHC | 3.91 | 3.91 | 3.81 | 4.01 | 0.00 |
| delta-BHC | 4.14 | 4.14 | 4.04 | 4.24 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Aldrin | 4.23 | 4.23 | 4.13 | 4.33 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endosulfan I | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Dieldrin | 5.37 | 5.37 | 5.27 | 5.47 | 0.00 |
| 4,4'-DDE | 5.24 | 5.24 | 5.14 | 5.34 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Endosulfan II | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |
| 4,4'-DDD | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.01 |
| Endrin ketone | 6.84 | 6.84 | 6.74 | 6.94 | 0.00 |
| Endrin aldehyde | 6.12 | 6.12 | 6.02 | 6.22 | 0.00 |
| alpha-Chlordane | 5.05 | 5.05 | 4.95 | 5.15 | 0.00 |
| gamma-Chlordane | 4.98 | 4.98 | 4.88 | 5.08 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL04 **Date Analyzed:** 11/07/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092916.D **Time Analyzed:** 18:51

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.712 | 6.610 | 6.810 | 47.100 | 50.000 | -5.8 |
| 4,4'-DDE | 6.194 | 6.093 | 6.293 | 45.860 | 50.000 | -8.3 |
| 4,4'-DDT | 7.026 | 6.923 | 7.123 | 43.250 | 50.000 | -13.5 |
| Aldrin | 5.259 | 5.158 | 5.358 | 46.420 | 50.000 | -7.2 |
| alpha-BHC | 3.998 | 3.896 | 4.096 | 48.340 | 50.000 | -3.3 |
| alpha-Chlordane | 6.021 | 5.919 | 6.119 | 45.360 | 50.000 | -9.3 |
| beta-BHC | 4.528 | 4.425 | 4.625 | 47.410 | 50.000 | -5.2 |
| Decachlorobiphenyl | 9.057 | 8.954 | 9.154 | 44.800 | 50.000 | -10.4 |
| delta-BHC | 4.775 | 4.672 | 4.872 | 47.740 | 50.000 | -4.5 |
| Dieldrin | 6.347 | 6.245 | 6.445 | 45.110 | 50.000 | -9.8 |
| Endosulfan I | 6.072 | 5.970 | 6.170 | 45.100 | 50.000 | -9.8 |
| Endosulfan II | 6.797 | 6.694 | 6.894 | 44.070 | 50.000 | -11.9 |
| Endosulfan sulfate | 7.161 | 7.058 | 7.258 | 43.920 | 50.000 | -12.2 |
| Endrin | 6.577 | 6.474 | 6.674 | 43.630 | 50.000 | -12.7 |
| Endrin aldehyde | 6.926 | 6.824 | 7.024 | 45.190 | 50.000 | -9.6 |
| Endrin ketone | 7.645 | 7.543 | 7.743 | 43.770 | 50.000 | -12.5 |
| gamma-BHC (Lindane) | 4.330 | 4.228 | 4.428 | 47.980 | 50.000 | -4.0 |
| gamma-Chlordane | 5.942 | 5.841 | 6.041 | 45.440 | 50.000 | -9.1 |
| Heptachlor | 4.917 | 4.817 | 5.017 | 46.490 | 50.000 | -7.0 |
| Heptachlor epoxide | 5.686 | 5.584 | 5.784 | 45.510 | 50.000 | -9.0 |
| Methoxychlor | 7.501 | 7.399 | 7.599 | 44.260 | 50.000 | -11.5 |
| Tetrachloro-m-xylene | 3.542 | 3.440 | 3.640 | 47.900 | 50.000 | -4.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL04 **Date Analyzed:** 11/07/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092916.D **Time Analyzed:** 18:51

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.790 | 5.689 | 5.889 | 51.850 | 50.000 | 3.7 |
| 4,4'-DDE | 5.235 | 5.135 | 5.335 | 50.640 | 50.000 | 1.3 |
| 4,4'-DDT | 6.040 | 5.940 | 6.140 | 46.830 | 50.000 | -6.3 |
| Aldrin | 4.230 | 4.129 | 4.329 | 50.860 | 50.000 | 1.7 |
| alpha-BHC | 3.281 | 3.181 | 3.381 | 51.420 | 50.000 | 2.8 |
| alpha-Chlordane | 5.046 | 4.945 | 5.145 | 50.260 | 50.000 | 0.5 |
| beta-BHC | 3.910 | 3.810 | 4.010 | 50.530 | 50.000 | 1.1 |
| Decachlorobiphenyl | 7.917 | 7.816 | 8.016 | 43.460 | 50.000 | -13.1 |
| delta-BHC | 4.139 | 4.039 | 4.239 | 51.360 | 50.000 | 2.7 |
| Dieldrin | 5.366 | 5.266 | 5.466 | 49.910 | 50.000 | -0.2 |
| Endosulfan I | 5.102 | 5.002 | 5.202 | 47.240 | 50.000 | -5.5 |
| Endosulfan II | 5.937 | 5.836 | 6.036 | 49.040 | 50.000 | -1.9 |
| Endosulfan sulfate | 6.338 | 6.238 | 6.438 | 47.640 | 50.000 | -4.7 |
| Endrin | 5.642 | 5.541 | 5.741 | 50.320 | 50.000 | 0.6 |
| Endrin aldehyde | 6.116 | 6.015 | 6.215 | 47.690 | 50.000 | -4.6 |
| Endrin ketone | 6.844 | 6.743 | 6.943 | 47.930 | 50.000 | -4.1 |
| gamma-BHC (Lindane) | 3.611 | 3.511 | 3.711 | 51.220 | 50.000 | 2.4 |
| gamma-Chlordane | 4.982 | 4.882 | 5.082 | 50.410 | 50.000 | 0.8 |
| Heptachlor | 3.950 | 3.849 | 4.049 | 50.110 | 50.000 | 0.2 |
| Heptachlor epoxide | 4.733 | 4.632 | 4.832 | 50.460 | 50.000 | 0.9 |
| Methoxychlor | 6.615 | 6.515 | 6.715 | 45.360 | 50.000 | -9.3 |
| Tetrachloro-m-xylene | 2.778 | 2.678 | 2.878 | 50.430 | 50.000 | 0.9 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092653.D **Date Analyzed:** 10/28/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 14:16

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.059 | 8.960 | 9.160 | 19.970 | 20.000 | -0.2 |
| Tetrachloro-m-xylene | 3.546 | 3.500 | 3.600 | 19.290 | 20.000 | -3.6 |
| alpha-BHC | 4.001 | 3.950 | 4.050 | 9.920 | 10.000 | -0.8 |
| beta-BHC | 4.531 | 4.480 | 4.580 | 10.060 | 10.000 | 0.6 |
| gamma-BHC (Lindane) | 4.334 | 4.280 | 4.380 | 9.660 | 10.000 | -3.4 |
| Endrin | 6.580 | 6.510 | 6.650 | 41.060 | 50.000 | -17.9 |
| 4,4'-DDT | 7.030 | 6.960 | 7.100 | 88.060 | 100.000 | -11.9 |
| Methoxychlor | 7.505 | 7.430 | 7.580 | 204.090 | 250.000 | -18.4 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092653.D **Date Analyzed:** 10/28/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 14:16

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.918 | 7.820 | 8.020 | 19.080 | 20.000 | -4.6 |
| Tetrachloro-m-xylene | 2.778 | 2.730 | 2.830 | 18.500 | 20.000 | -7.5 |
| alpha-BHC | 3.281 | 3.230 | 3.330 | 8.630 | 10.000 | -13.7 |
| beta-BHC | 3.911 | 3.860 | 3.960 | 9.760 | 10.000 | -2.4 |
| gamma-BHC (Lindane) | 3.611 | 3.560 | 3.660 | 8.390 | 10.000 | -16.1 |
| Endrin | 5.643 | 5.570 | 5.710 | 44.130 | 50.000 | -11.7 |
| 4,4'-DDT | 6.042 | 5.970 | 6.110 | 98.070 | 100.000 | -1.9 |
| Methoxychlor | 6.616 | 6.550 | 6.690 | 225.800 | 250.000 | -9.7 |

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Fax : 908 789 8922

## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092887.D **Date Analyzed:** 11/07/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:08

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.057 | 8.960 | 9.160 | 21.710 | 20.000 | 8.6 |
| Tetrachloro-m-xylene | 3.542 | 3.490 | 3.590 | 22.260 | 20.000 | 11.3 |
| alpha-BHC | 3.997 | 3.950 | 4.050 | 11.600 | 10.000 | 16.0 |
| beta-BHC | 4.528 | 4.480 | 4.580 | 11.980 | 10.000 | 19.8 |
| gamma-BHC (Lindane) | 4.330 | 4.280 | 4.380 | 11.340 | 10.000 | 13.4 |
| Endrin | 6.577 | 6.510 | 6.650 | 45.790 | 50.000 | -8.4 |
| 4,4'-DDT | 7.027 | 6.960 | 7.100 | 97.140 | 100.000 | -2.9 |
| Methoxychlor | 7.502 | 7.430 | 7.570 | 224.260 | 250.000 | -10.3 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092887.D **Date Analyzed:** 11/07/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 11:08

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.917 | 7.820 | 8.020 | 20.800 | 20.000 | 4.0 |
| Tetrachloro-m-xylene | 2.778 | 2.730 | 2.830 | 21.690 | 20.000 | 8.5 |
| alpha-BHC | 3.280 | 3.230 | 3.330 | 10.310 | 10.000 | 3.1 |
| beta-BHC | 3.910 | 3.860 | 3.960 | 11.590 | 10.000 | 15.9 |
| gamma-BHC (Lindane) | 3.610 | 3.560 | 3.660 | 10.020 | 10.000 | 0.2 |
| Endrin | 5.642 | 5.570 | 5.710 | 52.890 | 50.000 | 5.8 |
| 4,4'-DDT | 6.040 | 5.970 | 6.110 | 114.780 | 100.000 | 14.8 |
| Methoxychlor | 6.616 | 6.550 | 6.690 | 254.450 | 250.000 | 1.8 |

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Fax : 908 789 8922

# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_L

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 10/28/2024 | 13:55 | PL092652.D | 9.05 | 3.54 |
| PEM | PEM | 10/28/2024 | 14:16 | PL092653.D | 9.06 | 3.55 |
| RESCHK | RESCHK | 10/28/2024 | 14:29 | PL092654.D | 9.05 | 3.54 |
| PSTDICC100 | PSTDICC100 | 10/28/2024 | 14:43 | PL092655.D | 9.05 | 3.54 |
| PSTDICC075 | PSTDICC075 | 10/28/2024 | 14:56 | PL092656.D | 9.05 | 3.54 |
| PSTDICC050 | PSTDICC050 | 10/28/2024 | 15:09 | PL092657.D | 9.05 | 3.54 |
| PSTDICC025 | PSTDICC025 | 10/28/2024 | 15:23 | PL092658.D | 9.05 | 3.54 |
| PSTDICC005 | PSTDICC005 | 10/28/2024 | 15:36 | PL092659.D | 9.05 | 3.54 |
| PCHLORICC500 | PCHLORICC500 | 10/28/2024 | 16:16 | PL092662.D | 9.06 | 3.54 |
| PTOXICC500 | PTOXICC500 | 10/28/2024 | 17:23 | PL092667.D | 9.05 | 3.54 |
| I.BLK | I.BLK | 11/07/2024 | 09:34 | PL092886.D | 9.06 | 3.54 |
| PEM | PEM | 11/07/2024 | 11:08 | PL092887.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/07/2024 | 11:21 | PL092888.D | 9.06 | 3.54 |
| PB164749BL | PB164749BL | 11/07/2024 | 13:52 | PL092897.D | 9.06 | 3.54 |
| PB164749BS | PB164749BS | 11/07/2024 | 14:06 | PL092898.D | 9.06 | 3.54 |
| JC-701-COMP-01MS | P4720-01MS | 11/07/2024 | 14:34 | PL092900.D | 9.06 | 3.54 |
| JC-701-COMP-01MSD | P4720-01MSD | 11/07/2024 | 14:47 | PL092901.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/07/2024 | 15:15 | PL092903.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/07/2024 | 15:29 | PL092904.D | 9.06 | 3.54 |
| WC-2(0-6) | P4722-08 | 11/07/2024 | 16:04 | PL092905.D | 9.07 | 3.55 |
| I.BLK | I.BLK | 11/07/2024 | 17:27 | PL092911.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/07/2024 | 17:41 | PL092912.D | 9.06 | 3.54 |
| WC-1(0-6) | P4722-03 | 11/07/2024 | 17:55 | PL092913.D | 9.06 | 3.54 |
| WC-3(0-6) | P4722-13 | 11/07/2024 | 18:09 | PL092914.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/07/2024 | 18:37 | PL092915.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/07/2024 | 18:51 | PL092916.D | 9.06 | 3.54 |

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Fax : 908 789 8922

# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_L

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 10/28/2024 | 13:55 | PL092652.D | 7.92 | 2.78 |
| PEM | PEM | 10/28/2024 | 14:16 | PL092653.D | 7.92 | 2.78 |
| RESCHK | RESCHK | 10/28/2024 | 14:29 | PL092654.D | 7.92 | 2.78 |
| PSTDICC100 | PSTDICC100 | 10/28/2024 | 14:43 | PL092655.D | 7.92 | 2.78 |
| PSTDICC075 | PSTDICC075 | 10/28/2024 | 14:56 | PL092656.D | 7.92 | 2.78 |
| PSTDICC050 | PSTDICC050 | 10/28/2024 | 15:09 | PL092657.D | 7.92 | 2.78 |
| PSTDICC025 | PSTDICC025 | 10/28/2024 | 15:23 | PL092658.D | 7.92 | 2.78 |
| PSTDICC005 | PSTDICC005 | 10/28/2024 | 15:36 | PL092659.D | 7.92 | 2.78 |
| PCHLORICC500 | PCHLORICC500 | 10/28/2024 | 16:16 | PL092662.D | 7.92 | 2.78 |
| PTOXICC500 | PTOXICC500 | 10/28/2024 | 17:23 | PL092667.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/07/2024 | 09:34 | PL092886.D | 7.92 | 2.78 |
| PEM | PEM | 11/07/2024 | 11:08 | PL092887.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/07/2024 | 11:21 | PL092888.D | 7.92 | 2.78 |
| PB164749BL | PB164749BL | 11/07/2024 | 13:52 | PL092897.D | 7.92 | 2.78 |
| PB164749BS | PB164749BS | 11/07/2024 | 14:06 | PL092898.D | 7.92 | 2.78 |
| JC-701-COMP-01MS | P4720-01MS | 11/07/2024 | 14:34 | PL092900.D | 7.92 | 2.78 |
| JC-701-COMP-01MSD | P4720-01MSD | 11/07/2024 | 14:47 | PL092901.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/07/2024 | 15:15 | PL092903.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/07/2024 | 15:29 | PL092904.D | 7.92 | 2.78 |
| WC-2(0-6) | P4722-08 | 11/07/2024 | 16:04 | PL092905.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/07/2024 | 17:27 | PL092911.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/07/2024 | 17:41 | PL092912.D | 7.92 | 2.78 |
| WC-1(0-6) | P4722-03 | 11/07/2024 | 17:55 | PL092913.D | 7.92 | 2.78 |
| WC-3(0-6) | P4722-13 | 11/07/2024 | 18:09 | PL092914.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/07/2024 | 18:37 | PL092915.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/07/2024 | 18:51 | PL092916.D | 7.92 | 2.78 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**JC-701-COMP-01MS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4720-01MS **Date(s) Analyzed:** 11/07/2024 11/07/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.80 | 6.75 | 6.85 | 17.3 | 14.5 |
| | 2 | 5.94 | 5.89 | 5.99 | 20.0 | |
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 20.3 | 9.3 |
| | 2 | 5.79 | 5.74 | 5.84 | 18.5 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 28.6 | 10.9 |
| | 2 | 6.04 | 5.99 | 6.09 | 31.9 | |
| Endrin aldehyde | 1 | 6.93 | 6.88 | 6.98 | 17.0 | 8.5 |
| | 2 | 6.12 | 6.07 | 6.17 | 18.5 | |
| Endosulfan sulfate | 1 | 7.16 | 7.11 | 7.21 | 14.2 | 10 |
| | 2 | 6.34 | 6.29 | 6.39 | 15.7 | |
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 17.2 | 5.1 |
| | 2 | 6.61 | 6.56 | 6.66 | 18.1 | |
| Endrin ketone | 1 | 7.65 | 7.60 | 7.70 | 18.0 | 0.6 |
| | 2 | 6.85 | 6.80 | 6.90 | 17.9 | |
| alpha-BHC | 1 | 4.00 | 3.95 | 4.05 | 16.3 | 0.6 |
| | 2 | 3.28 | 3.23 | 3.33 | 16.4 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 16.2 | 3 |
| | 2 | 3.61 | 3.56 | 3.66 | 16.7 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 18.2 | 5.9 |
| | 2 | 3.95 | 3.90 | 4.00 | 19.3 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 17.4 | 5 |
| | 2 | 4.23 | 4.18 | 4.28 | 18.3 | |
| beta-BHC | 1 | 4.53 | 4.48 | 4.58 | 17.7 | 7.1 |
| | 2 | 3.91 | 3.86 | 3.96 | 19.0 | |
| delta-BHC | 1 | 4.77 | 4.72 | 4.82 | 4.60 | 19 |
| | 2 | 4.14 | 4.09 | 4.19 | 3.80 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 17.9 | 3.8 |
| | 2 | 4.73 | 4.68 | 4.78 | 18.6 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**JC-701-COMP-01MS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4720-01MS **Date(s) Analyzed:** 11/07/2024 11/07/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 17.9 | 10 |
| | 2 | 5.10 | 5.05 | 5.15 | 16.2 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 19.1 | 5.6 |
| | 2 | 4.98 | 4.93 | 5.03 | 20.2 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 18.2 | 5.3 |
| | 2 | 5.05 | 5.00 | 5.10 | 19.2 | |
| 4,4'-DDE | 1 | 6.20 | 6.15 | 6.25 | 22.6 | 12.8 |
| | 2 | 5.23 | 5.18 | 5.28 | 25.7 | |
| Dieldrin | 1 | 6.35 | 6.30 | 6.40 | 17.8 | 15.5 |
| | 2 | 5.37 | 5.32 | 5.42 | 20.8 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 18.5 | 15.9 |
| | 2 | 5.64 | 5.59 | 5.69 | 21.7 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**JC-701-COMP-01MSD**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4720-01MSD **Date(s) Analyzed:** 11/07/2024 11/07/2024

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

**GC Column: (1):** ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **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 | 20.5 | 6.5 |
| | 2 | 5.79 | 5.74 | 5.84 | 19.2 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 28.8 | 12.1 |
| | 2 | 6.04 | 5.99 | 6.09 | 32.5 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 17.6 | 6.6 |
| | 2 | 4.23 | 4.18 | 4.28 | 18.8 | |
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 22.8 | 13.9 |
| | 2 | 5.24 | 5.19 | 5.29 | 26.2 | |
| Endosulfan II | 1 | 6.80 | 6.75 | 6.85 | 17.5 | 15.8 |
| | 2 | 5.94 | 5.89 | 5.99 | 20.5 | |
| Endrin aldehyde | 1 | 6.93 | 6.88 | 6.98 | 17.0 | 10.1 |
| | 2 | 6.12 | 6.07 | 6.17 | 18.8 | |
| Endosulfan sulfate | 1 | 7.16 | 7.11 | 7.21 | 14.2 | 12.5 |
| | 2 | 6.34 | 6.29 | 6.39 | 16.1 | |
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 17.2 | 12 |
| | 2 | 6.61 | 6.56 | 6.66 | 19.4 | |
| Endrin ketone | 1 | 7.64 | 7.59 | 7.69 | 18.5 | 3.3 |
| | 2 | 6.84 | 6.79 | 6.89 | 17.9 | |
| alpha-BHC | 1 | 4.00 | 3.95 | 4.05 | 16.5 | 1.2 |
| | 2 | 3.28 | 3.23 | 3.33 | 16.7 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 16.3 | 4.8 |
| | 2 | 3.61 | 3.56 | 3.66 | 17.1 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 18.3 | 7.4 |
| | 2 | 3.95 | 3.90 | 4.00 | 19.7 | |
| beta-BHC | 1 | 4.53 | 4.48 | 4.58 | 17.9 | 9.1 |
| | 2 | 3.91 | 3.86 | 3.96 | 19.6 | |
| delta-BHC | 1 | 4.77 | 4.72 | 4.82 | 4.60 | 16.5 |
| | 2 | 4.14 | 4.09 | 4.19 | 3.90 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**JC-701-COMP-01MSD**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4720-01MSD **Date(s) Analyzed:** 11/07/2024 11/07/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 18.0 | 5.4 |
| | 2 | 4.73 | 4.68 | 4.78 | 19.0 | |
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 18.1 | 10.5 |
| | 2 | 5.10 | 5.05 | 5.15 | 16.3 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 19.2 | 8 |
| | 2 | 4.98 | 4.93 | 5.03 | 20.8 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 18.3 | 7.4 |
| | 2 | 5.05 | 5.00 | 5.10 | 19.7 | |
| Dieldrin | 1 | 6.35 | 6.30 | 6.40 | 18.0 | 17.3 |
| | 2 | 5.37 | 5.32 | 5.42 | 21.4 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 18.3 | 18.4 |
| | 2 | 5.64 | 5.59 | 5.69 | 22.0 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB164749BS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** PB164749BS **Date(s) Analyzed:** 11/07/2024 11/07/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.80 | 6.75 | 6.85 | 15.8 | 11.3 |
| | 2 | 5.94 | 5.89 | 5.99 | 17.7 | |
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 16.6 | 6.4 |
| | 2 | 5.79 | 5.74 | 5.84 | 17.7 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 16.7 | 5.8 |
| | 2 | 6.04 | 5.99 | 6.09 | 17.7 | |
| Endrin aldehyde | 1 | 6.93 | 6.88 | 6.98 | 15.7 | 6.2 |
| | 2 | 6.12 | 6.07 | 6.17 | 16.7 | |
| Endosulfan sulfate | 1 | 7.16 | 7.11 | 7.21 | 15.7 | 8.5 |
| | 2 | 6.34 | 6.29 | 6.39 | 17.1 | |
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 16.3 | 4.8 |
| | 2 | 6.62 | 6.57 | 6.67 | 17.1 | |
| Endrin ketone | 1 | 7.65 | 7.60 | 7.70 | 15.8 | 9.1 |
| | 2 | 6.85 | 6.80 | 6.90 | 17.3 | |
| alpha-BHC | 1 | 4.00 | 3.95 | 4.05 | 15.6 | 3.2 |
| | 2 | 3.28 | 3.23 | 3.33 | 16.1 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 15.5 | 3.2 |
| | 2 | 3.61 | 3.56 | 3.66 | 16.0 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 16.1 | 5.4 |
| | 2 | 3.95 | 3.90 | 4.00 | 17.0 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 15.3 | 6.3 |
| | 2 | 4.23 | 4.18 | 4.28 | 16.3 | |
| beta-BHC | 1 | 4.53 | 4.48 | 4.58 | 16.0 | 4.3 |
| | 2 | 3.91 | 3.86 | 3.96 | 16.7 | |
| delta-BHC | 1 | 4.78 | 4.73 | 4.83 | 14.2 | 0.7 |
| | 2 | 4.14 | 4.09 | 4.19 | 14.3 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 15.5 | 7.5 |
| | 2 | 4.73 | 4.68 | 4.78 | 16.7 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB164749BS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** PB164749BS **Date(s) Analyzed:** 11/07/2024 11/07/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 15.9 | 7.3 |
| | 2 | 5.10 | 5.05 | 5.15 | 17.1 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 16.1 | 6.6 |
| | 2 | 4.98 | 4.93 | 5.03 | 17.2 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 16.1 | 6 |
| | 2 | 5.05 | 5.00 | 5.10 | 17.1 | |
| 4,4'-DDE | 1 | 6.20 | 6.15 | 6.25 | 16.3 | 5.4 |
| | 2 | 5.24 | 5.19 | 5.29 | 17.2 | |
| Dieldrin | 1 | 6.35 | 6.30 | 6.40 | 16.0 | 7.2 |
| | 2 | 5.37 | 5.32 | 5.42 | 17.2 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 15.9 | 11.3 |
| | 2 | 5.64 | 5.59 | 5.69 | 17.8 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WC-1(0-6)**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4722-03 **Date(s) Analyzed:** 11/07/2024 11/07/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 4,4'-DDE | 1 | 6.19 | 6.14 | 6.24 | 1.80 | 28.6 |
| | 2 | 5.24 | 5.19 | 5.29 | 2.40 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WC-2(0-6)**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4722-08 **Date(s) Analyzed:** 11/07/2024 11/07/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan sulfate | 1 | 7.15 | 7.10 | 7.20 | 0.80 | 5.2 |
| | 2 | 6.34 | 6.29 | 6.39 | 0.76 | |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/08/24 | |
| | | | Herbicide | 8151A | | 11/07/24 | 11/12/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-03DL** | **WC-1(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-04** | **WC-1(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-05** | **WC-1(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/07/24 | |
| | | | Herbicide | 8151A | | 11/07/24 | 11/08/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-08DL** | **WC-2(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-09** | **WC-2(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-10** | **WC-2(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |

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# LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/08/24 | |
| | | | Herbicide | 8151A | | 11/07/24 | 11/12/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-13DL** | **WC-3(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-14** | **WC-3(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-15** | **WC-3(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |

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# Hit Summary Sheet
## SW-846

**SDG No.:** P4722 **Order ID:** P4722

**Client:** Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|

**Client ID :**

**Total Concentration:** 0.000

# SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-04 | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092986.D | 1 | 11/10/24 08:44 | 11/11/24 23:28 | PB164849 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.049 | U | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.054 | U | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.090 | U | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.043 | U | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.11 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 1.50 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 0.82 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 17.2 | | 43 - 140 | 86% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.5 | | 77 - 126 | 103% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-09 | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092987.D | 1 | 11/10/24 08:44 | 11/11/24 23:42 | PB164849 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.049 | U | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.054 | U | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.090 | U | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.043 | U | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.11 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 1.50 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 0.82 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 18.1 | | 43 - 140 | 90% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.5 | | 77 - 126 | 97% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-14 | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092988.D | 1 | 11/10/24 08:44 | 11/11/24 23:56 | PB164849 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.049 | U | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.054 | U | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.090 | U | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.043 | U | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.11 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 1.50 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 0.82 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 17.0 | | 43 - 140 | 85% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.2 | | 77 - 126 | 101% | SPK: 20 |

Comments:

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LOD = Limit of Detection
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/10/24 |
| Client Sample ID: | PB164694TB | SDG No.: | P4722 |
| Lab Sample ID: | PB164694TB | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092946.D | 1 | 11/10/24 08:44 | 11/11/24 12:40 | PB164849 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.049 | U | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 0.054 | U | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.090 | U | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 0.043 | U | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 0.11 | U | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 1.50 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 0.82 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 21.2 | | 43 - 140 | 106% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.6 | | 77 - 126 | 103% | SPK: 20 |

Comments:

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

# QC SUMMARY

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

## Surrogate Summary

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PL092652.D | PIBLK-PL092652.D | Decachlorobiphenyl | 1 | 20 | 22.7 | 114 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.6 | 108 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 21.7 | 109 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.4 | 102 | | 77 | 126 |
| I.BLK-PL092941.D | PIBLK-PL092941.D | Decachlorobiphenyl | 1 | 20 | 20.8 | 104 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.3 | 112 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 19.8 | 99 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.6 | 108 | | 77 | 126 |
| PB164849BL | PB164849BL | Decachlorobiphenyl | 1 | 20 | 21.1 | 105 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.7 | 104 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 20.5 | 103 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.1 | 101 | | 77 | 126 |
| PB164849BS | PB164849BS | Decachlorobiphenyl | 1 | 20 | 19.3 | 96 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.1 | 95 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 18.9 | 94 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 17.9 | 90 | | 77 | 126 |
| PB164694TB | PB164694TB | Decachlorobiphenyl | 1 | 20 | 21.2 | 106 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.6 | 103 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 20.8 | 104 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.1 | 101 | | 77 | 126 |
| I.BLK-PL092959.D | PIBLK-PL092959.D | Decachlorobiphenyl | 1 | 20 | 22.0 | 110 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.1 | 110 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 22.2 | 111 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.5 | 107 | | 77 | 126 |
| I.BLK-PL092971.D | PIBLK-PL092971.D | Decachlorobiphenyl | 1 | 20 | 21.6 | 108 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.7 | 114 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 20.6 | 103 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.6 | 108 | | 77 | 126 |
| P4718-03MS | WB-307-SB02MS | Decachlorobiphenyl | 1 | 20 | 14.1 | 71 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 24.6 | 123 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 13.1 | 66 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.3 | 96 | | 77 | 126 |
| P4718-03MSD | WB-307-SB02MSD | Decachlorobiphenyl | 1 | 20 | 14.4 | 72 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 24.6 | 123 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 13.2 | 66 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.3 | 97 | | 77 | 126 |
| P4722-04 | WC-1(0-6) | Decachlorobiphenyl | 1 | 20 | 17.2 | 86 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.5 | 103 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 15.8 | 79 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.0 | 100 | | 77 | 126 |
| P4722-09 | WC-2(0-6) | Decachlorobiphenyl | 1 | 20 | 18.1 | 90 | | 43 | 140 |

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Fax : 908 789 8922

## Surrogate Summary

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| P4722-09 | WC-2(0-6) | Tetrachloro-m-xylene | 1 | 20 | 19.5 | 97 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 17.0 | 85 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.6 | 93 | | 77 | 126 |
| P4722-14 | WC-3(0-6) | Decachlorobiphenyl | 1 | 20 | 17.0 | 85 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.2 | 101 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 16.4 | 82 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.9 | 99 | | 77 | 126 |
| I.BLK-PL092992.D | PIBLK-PL092992.D | Decachlorobiphenyl | 1 | 20 | 22.2 | 111 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.8 | 114 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 21.8 | 109 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.2 | 111 | | 77 | 126 |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B **DataFile :** PL092984.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **WB-307-SB02MS** | | | | | | | | | | | |
| P4718-03MS | gamma-BHC (Lindane) | 5 | 0 | 4.90 | ug/L | 98 | | | | 60 | 152 | |
| | Heptachlor | 5 | 0 | 5.40 | ug/L | 108 | | | | 56 | 147 | |
| | Heptachlor epoxide | 5 | 0 | 5.30 | ug/L | 106 | | | | 77 | 143 | |
| | Endrin | 5 | 0 | 5.20 | ug/L | 104 | | | | 76 | 144 | |
| | Methoxychlor | 5 | 0 | 4.80 | ug/L | 96 | | | | 70 | 142 | |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B **DataFile :** PL092985.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **WB-307-SB02MSD** | | | | | | | | | | | |
| P4718-03MSD | gamma-BHC (Lindane) | 5 | 0 | 4.90 | ug/L | 98 | | 0 | | 60 | 152 | 20 |
| | Heptachlor | 5 | 0 | 5.50 | ug/L | 110 | | 2 | | 56 | 147 | 20 |
| | Heptachlor epoxide | 5 | 0 | 5.30 | ug/L | 106 | | 0 | | 77 | 143 | 20 |
| | Endrin | 5 | 0 | 5.40 | ug/L | 108 | | 4 | | 76 | 144 | 20 |
| | Methoxychlor | 5 | 0 | 4.80 | ug/L | 96 | | 0 | | 70 | 142 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B **Datafile :** PL092945.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164849BS | gamma-BHC (Lindane) | 0.5 | 0.51 | ug/L | 102 | | | | 82 | 129 | |
| | Heptachlor | 0.5 | 0.53 | ug/L | 106 | | | | 79 | 127 | |
| | Heptachlor epoxide | 0.5 | 0.53 | ug/L | 107 | | | | 81 | 124 | |
| | Endrin | 0.5 | 0.53 | ug/L | 106 | | | | 81 | 128 | |
| | Methoxychlor | 0.5 | 0.50 | ug/L | 100 | | | | 78 | 108 | |

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Fax : 908 789 8922

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164849BL

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab Sample ID: PB164849BL Lab File ID: PL092944.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 11/10/2024

Date Analyzed (1): 11/11/2024 Date Analyzed (2): 11/11/2024

Time Analyzed (1): 12:12 Time Analyzed (2): 12:12

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR2 ID: 0.32 (mm) GC Column (2): ZB-MR1 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 |
|---|---|---|---|---|
| PB164849BS | PB164849BS | PL092945.D | 11/11/2024 | 11/11/2024 |
| PB164694TB | PB164694TB | PL092946.D | 11/11/2024 | 11/11/2024 |
| WB-307-SB02MS | P4718-03MS | PL092984.D | 11/11/2024 | 11/11/2024 |
| WB-307-SB02MSD | P4718-03MSD | PL092985.D | 11/11/2024 | 11/11/2024 |
| WC-1(0-6) | P4722-04 | PL092986.D | 11/11/2024 | 11/11/2024 |
| WC-2(0-6) | P4722-09 | PL092987.D | 11/11/2024 | 11/11/2024 |
| WC-3(0-6) | P4722-14 | PL092988.D | 11/11/2024 | 11/11/2024 |

COMMENTS:

# QC SAMPLE DATA

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164849BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164849BL | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092944.D | 1 | 11/10/24 08:44 | 11/11/24 12:12 | PB164849 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.082 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 21.1 | | 43 - 140 | 105% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.7 | | 77 - 126 | 104% | SPK: 20 |

Comments:

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 10/28/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 10/28/24 |
| Client Sample ID: | PIBLK-PL092652.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092652.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092652.D | 1 | | 10/28/24 | PL102824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.082 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.7 | | 43 - 140 | 114% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.6 | | 77 - 126 | 108% | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/11/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/11/24 |
| Client Sample ID: | PIBLK-PL092941.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092941.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092941.D | 1 | | 11/11/24 | PL111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.082 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 20.8 | | 43 - 140 | 104% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.3 | | 77 - 126 | 112% | SPK: 20 |

Comments:

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/11/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/11/24 |
| Client Sample ID: | PIBLK-PL092959.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092959.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092959.D | 1 | | 11/11/24 | PL111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.082 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.2 | | 43 - 140 | 111% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.1 | | 77 - 126 | 110% | SPK: 20 |

Comments:

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/11/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/11/24 |
| Client Sample ID: | PIBLK-PL092971.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092971.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092971.D | 1 | | 11/11/24 | PL111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.082 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 21.6 | | 43 - 140 | 108% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.7 | | 77 - 126 | 114% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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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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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/12/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/12/24 |
| Client Sample ID: | PIBLK-PL092992.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092992.D | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092992.D | 1 | | 11/12/24 | PL111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.082 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.2 | | 43 - 140 | 111% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.8 | | 77 - 126 | 114% | SPK: 20 |

Comments:

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() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164849BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164849BS | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092945.D | 1 | 11/10/24 08:44 | 11/11/24 12:26 | PB164849 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 0.51 | | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.53 | | 0.0054 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.53 | | 0.0090 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.53 | | 0.0043 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.50 | | 0.011 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 57-74-9 | Chlordane | 0.082 | U | 0.082 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.3 | | 43 - 140 | 96% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.1 | | 77 - 126 | 95% | SPK: 20 |

Comments:

U = Not Detected
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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
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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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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/04/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WB-307-SB02MS | SDG No.: | P4722 |
| Lab Sample ID: | P4718-03MS | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092984.D | 1 | 11/10/24 08:44 | 11/11/24 23:01 | PB164849 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 4.90 | | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 5.40 | | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 5.30 | | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 5.20 | | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 4.80 | | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 1.50 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 0.82 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 14.1 | | 43 - 140 | 71% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 24.6 | | 77 - 126 | 123% | SPK: 20 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/04/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WB-307-SB02MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4718-03MSD | Matrix: | TCLP |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092985.D | 1 | 11/10/24 08:44 | 11/11/24 23:14 | PB164849 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 58-89-9 | gamma-BHC (Lindane) | 4.90 | | 0.049 | 0.50 | ug/L |
| 76-44-8 | Heptachlor | 5.50 | | 0.054 | 0.50 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 5.30 | | 0.090 | 0.50 | ug/L |
| 72-20-8 | Endrin | 5.40 | | 0.043 | 0.50 | ug/L |
| 72-43-5 | Methoxychlor | 4.80 | | 0.11 | 0.50 | ug/L |
| 8001-35-2 | Toxaphene | 1.50 | U | 1.50 | 10.0 | ug/L |
| 57-74-9 | Chlordane | 0.82 | U | 0.82 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 14.4 | | 43 - 140 | 72% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 24.6 | | 77 - 126 | 123% | SPK: 20 |

Comments:

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

# CALIBRATION SUMMARY

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

## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 14:43 15:36

---

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

**LAB FILE ID:** RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.05 | 9.05 | 9.05 | 9.05 | 9.05 | 9.05 | 8.95 | 9.15 |
| Endrin | 6.58 | 6.58 | 6.57 | 6.57 | 6.57 | 6.57 | 6.47 | 6.67 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.23 | 4.43 |
| Heptachlor | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.82 | 5.02 |
| Heptachlor epoxide | 5.69 | 5.69 | 5.68 | 5.69 | 5.68 | 5.68 | 5.58 | 5.78 |
| Methoxychlor | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.40 | 7.60 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.44 | 3.64 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 14:43 15:36

---

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

**LAB FILE ID:** RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.92 | 7.92 | 7.92 | 7.92 | 7.92 | 7.92 | 7.82 | 8.02 |
| Endrin | 5.64 | 5.64 | 5.64 | 5.64 | 5.64 | 5.64 | 5.54 | 5.74 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.61 | 3.61 | 3.61 | 3.61 | 3.51 | 3.71 |
| Heptachlor | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.85 | 4.05 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.63 | 4.83 |
| Methoxychlor | 6.61 | 6.62 | 6.62 | 6.62 | 6.61 | 6.61 | 6.51 | 6.71 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.68 | 2.88 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 14:43 15:36

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

**LAB FILE ID:** **CF 100 =** PL092655.D **CF 075 =** PL092656.D

**CF 050 =** PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 1738840000 | 1756630000 | 1819720000 | 1998760000 | 2308800000 | 1924550000 | 12 |
| Endrin | 2111540000 | 2103000000 | 2121260000 | 2324460000 | 2723040000 | 2276660000 | 12 |
| gamma-BHC (Lindane) | 3198960000 | 3133030000 | 3104430000 | 3278360000 | 3583040000 | 3259560000 | 6 |
| Heptachlor | 2817300000 | 2795570000 | 2829220000 | 3064000000 | 3509480000 | 3003110000 | 10 |
| Heptachlor epoxide | 2536240000 | 2521530000 | 2566410000 | 2821600000 | 3361270000 | 2761410000 | 13 |
| Methoxychlor | 1040530000 | 1050870000 | 1078280000 | 1189160000 | 1341160000 | 1140000000 | 11 |
| Tetrachloro-m-xylene | 2319350000 | 2304070000 | 2328420000 | 2512350000 | 2786990000 | 2450240000 | 8 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 14:43 15:36

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

**LAB FILE ID:** **CF 100 =** PL092655.D **CF 075 =** PL092656.D

**CF 050 =** PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 2606810000 | 2575500000 | 2605540000 | 2793460000 | 3064890000 | 2729240000 | 8 |
| Endrin | 2969490000 | 2878380000 | 2828080000 | 2876210000 | 2912860000 | 2893010000 | 2 |
| gamma-BHC (Lindane) | 4083950000 | 3934430000 | 3833920000 | 3828430000 | 3616530000 | 3859450000 | 4 |
| Heptachlor | 3876200000 | 3766580000 | 3709120000 | 3779090000 | 3738650000 | 3773930000 | 2 |
| Heptachlor epoxide | 3405420000 | 3318630000 | 3272090000 | 3352830000 | 3358060000 | 3341410000 | 1 |
| Methoxychlor | 1400820000 | 1385450000 | 1393920000 | 1470360000 | 1489590000 | 1428030000 | 3 |
| Tetrachloro-m-xylene | 2724750000 | 2661560000 | 2643180000 | 2728430000 | 2847900000 | 2721160000 | 3 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

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

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Chlordane | 500 | 1 | 4.70 | 4.60 | 4.80 | 106996000 |
| | | 2 | 5.23 | 5.13 | 5.33 | 110397000 |
| | | 3 | 5.94 | 5.84 | 6.04 | 372388000 |
| | | 4 | 6.02 | 5.92 | 6.12 | 458405000 |
| | | 5 | 6.87 | 6.77 | 6.97 | 92161100 |
| Toxaphene | 500 | 1 | 6.24 | 6.14 | 6.34 | 23962400 |
| | | 2 | 6.44 | 6.34 | 6.54 | 13823600 |
| | | 3 | 7.06 | 6.96 | 7.16 | 79159800 |
| | | 4 | 7.15 | 7.05 | 7.25 | 59803700 |
| | | 5 | 7.93 | 7.83 | 8.03 | 45329200 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

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

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Chlordane | 500 | 1 | 3.78 | 3.68 | 3.88 | 105092000 |
| | | 2 | 4.35 | 4.25 | 4.45 | 120641000 |
| | | 3 | 4.98 | 4.88 | 5.08 | 361048000 |
| | | 4 | 5.05 | 4.95 | 5.15 | 346821000 |
| | | 5 | 5.94 | 5.84 | 6.04 | 124060000 |
| Toxaphene | 500 | 1 | 5.01 | 4.91 | 5.11 | 19952700 |
| | | 2 | 5.33 | 5.23 | 5.43 | 19749600 |
| | | 3 | 6.61 | 6.51 | 6.71 | 70222500 |
| | | 4 | 6.73 | 6.63 | 6.83 | 98337700 |
| | | 5 | 7.05 | 6.95 | 7.15 | 65479700 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 11:58 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 11:58 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092943.D **Time Analyzed:** 11:58

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.061 | 8.954 | 9.154 | 46.430 | 50.000 | -7.1 |
| Endrin | 6.579 | 6.474 | 6.674 | 43.850 | 50.000 | -12.3 |
| gamma-BHC (Lindane) | 4.331 | 4.228 | 4.428 | 49.900 | 50.000 | -0.2 |
| Heptachlor | 4.920 | 4.817 | 5.017 | 47.730 | 50.000 | -4.5 |
| Heptachlor epoxide | 5.688 | 5.584 | 5.784 | 48.400 | 50.000 | -3.2 |
| Methoxychlor | 7.504 | 7.399 | 7.599 | 44.210 | 50.000 | -11.6 |
| Tetrachloro-m-xylene | 3.542 | 3.440 | 3.640 | 49.960 | 50.000 | -0.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092943.D **Time Analyzed:** 11:58

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.919 | 7.816 | 8.016 | 46.770 | 50.000 | -6.5 |
| Endrin | 5.643 | 5.541 | 5.741 | 50.950 | 50.000 | 1.9 |
| gamma-BHC (Lindane) | 3.611 | 3.511 | 3.711 | 52.560 | 50.000 | 5.1 |
| Heptachlor | 3.951 | 3.849 | 4.049 | 50.950 | 50.000 | 1.9 |
| Heptachlor epoxide | 4.733 | 4.632 | 4.832 | 52.470 | 50.000 | 4.9 |
| Methoxychlor | 6.617 | 6.515 | 6.715 | 46.930 | 50.000 | -6.1 |
| Tetrachloro-m-xylene | 2.778 | 2.678 | 2.878 | 51.750 | 50.000 | 3.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 16:49 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Methoxychlor | 7.51 | 7.50 | 7.40 | 7.60 | -0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 16:49 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092960.D **Time Analyzed:** 16:49

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.064 | 8.954 | 9.154 | 45.750 | 50.000 | -8.5 |
| Endrin | 6.580 | 6.474 | 6.674 | 43.680 | 50.000 | -12.6 |
| gamma-BHC (Lindane) | 4.332 | 4.228 | 4.428 | 49.740 | 50.000 | -0.5 |
| Heptachlor | 4.921 | 4.817 | 5.017 | 46.230 | 50.000 | -7.5 |
| Heptachlor epoxide | 5.689 | 5.584 | 5.784 | 48.040 | 50.000 | -3.9 |
| Methoxychlor | 7.506 | 7.399 | 7.599 | 41.600 | 50.000 | -16.8 |
| Tetrachloro-m-xylene | 3.543 | 3.440 | 3.640 | 50.620 | 50.000 | 1.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092960.D **Time Analyzed:** 16:49

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.920 | 7.816 | 8.016 | 47.520 | 50.000 | -5.0 |
| Endrin | 5.643 | 5.541 | 5.741 | 51.290 | 50.000 | 2.6 |
| gamma-BHC (Lindane) | 3.611 | 3.511 | 3.711 | 52.740 | 50.000 | 5.5 |
| Heptachlor | 3.950 | 3.849 | 4.049 | 49.830 | 50.000 | -0.3 |
| Heptachlor epoxide | 4.733 | 4.632 | 4.832 | 52.930 | 50.000 | 5.9 |
| Methoxychlor | 6.617 | 6.515 | 6.715 | 45.570 | 50.000 | -8.9 |
| Tetrachloro-m-xylene | 2.779 | 2.678 | 2.878 | 51.800 | 50.000 | 3.6 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 20:14 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Methoxychlor | 7.51 | 7.50 | 7.40 | 7.60 | -0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 20:14 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092973.D **Time Analyzed:** 20:14

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.063 | 8.954 | 9.154 | 43.000 | 50.000 | -14.0 |
| Endrin | 6.579 | 6.474 | 6.674 | 43.010 | 50.000 | -14.0 |
| gamma-BHC (Lindane) | 4.331 | 4.228 | 4.428 | 48.520 | 50.000 | -3.0 |
| Heptachlor | 4.920 | 4.817 | 5.017 | 45.380 | 50.000 | -9.2 |
| Heptachlor epoxide | 5.688 | 5.584 | 5.784 | 47.490 | 50.000 | -5.0 |
| Methoxychlor | 7.505 | 7.399 | 7.599 | 42.350 | 50.000 | -15.3 |
| Tetrachloro-m-xylene | 3.542 | 3.440 | 3.640 | 49.410 | 50.000 | -1.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092973.D **Time Analyzed:** 20:14

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.920 | 7.816 | 8.016 | 44.340 | 50.000 | -11.3 |
| Endrin | 5.644 | 5.541 | 5.741 | 48.560 | 50.000 | -2.9 |
| gamma-BHC (Lindane) | 3.612 | 3.511 | 3.711 | 50.790 | 50.000 | 1.6 |
| Heptachlor | 3.951 | 3.849 | 4.049 | 48.630 | 50.000 | -2.7 |
| Heptachlor epoxide | 4.734 | 4.632 | 4.832 | 50.070 | 50.000 | 0.1 |
| Methoxychlor | 6.618 | 6.515 | 6.715 | 43.670 | 50.000 | -12.7 |
| Tetrachloro-m-xylene | 2.779 | 2.678 | 2.878 | 50.370 | 50.000 | 0.7 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 01:06 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 01:06 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL04 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092993.D **Time Analyzed:** 01:06

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.062 | 8.954 | 9.154 | 45.740 | 50.000 | -8.5 |
| Endrin | 6.579 | 6.474 | 6.674 | 42.020 | 50.000 | -16.0 |
| gamma-BHC (Lindane) | 4.331 | 4.228 | 4.428 | 49.360 | 50.000 | -1.3 |
| Heptachlor | 4.919 | 4.817 | 5.017 | 45.840 | 50.000 | -8.3 |
| Heptachlor epoxide | 5.686 | 5.584 | 5.784 | 47.100 | 50.000 | -5.8 |
| Methoxychlor | 7.504 | 7.399 | 7.599 | 40.210 | 50.000 | -19.6 |
| Tetrachloro-m-xylene | 3.542 | 3.440 | 3.640 | 50.220 | 50.000 | 0.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL04 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092993.D **Time Analyzed:** 01:06

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.920 | 7.816 | 8.016 | 46.990 | 50.000 | -6.0 |
| Endrin | 5.643 | 5.541 | 5.741 | 48.620 | 50.000 | -2.8 |
| gamma-BHC (Lindane) | 3.611 | 3.511 | 3.711 | 52.480 | 50.000 | 5.0 |
| Heptachlor | 3.950 | 3.849 | 4.049 | 49.220 | 50.000 | -1.6 |
| Heptachlor epoxide | 4.733 | 4.632 | 4.832 | 51.790 | 50.000 | 3.6 |
| Methoxychlor | 6.617 | 6.515 | 6.715 | 42.960 | 50.000 | -14.1 |
| Tetrachloro-m-xylene | 2.778 | 2.678 | 2.878 | 51.720 | 50.000 | 3.4 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092653.D **Date Analyzed:** 10/28/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 14:16

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.059 | 8.960 | 9.160 | 19.970 | 20.000 | -0.2 |
| Tetrachloro-m-xylene | 3.546 | 3.500 | 3.600 | 19.290 | 20.000 | -3.6 |
| alpha-BHC | 4.001 | 3.950 | 4.050 | 9.920 | 10.000 | -0.8 |
| beta-BHC | 4.531 | 4.480 | 4.580 | 10.060 | 10.000 | 0.6 |
| gamma-BHC (Lindane) | 4.334 | 4.280 | 4.380 | 9.660 | 10.000 | -3.4 |
| Endrin | 6.580 | 6.510 | 6.650 | 41.060 | 50.000 | -17.9 |
| 4,4'-DDT | 7.030 | 6.960 | 7.100 | 88.060 | 100.000 | -11.9 |
| Methoxychlor | 7.505 | 7.430 | 7.580 | 204.090 | 250.000 | -18.4 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092653.D **Date Analyzed:** 10/28/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 14:16

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.918 | 7.820 | 8.020 | 19.080 | 20.000 | -4.6 |
| Tetrachloro-m-xylene | 2.778 | 2.730 | 2.830 | 18.500 | 20.000 | -7.5 |
| alpha-BHC | 3.281 | 3.230 | 3.330 | 8.630 | 10.000 | -13.7 |
| beta-BHC | 3.911 | 3.860 | 3.960 | 9.760 | 10.000 | -2.4 |
| gamma-BHC (Lindane) | 3.611 | 3.560 | 3.660 | 8.390 | 10.000 | -16.1 |
| Endrin | 5.643 | 5.570 | 5.710 | 44.130 | 50.000 | -11.7 |
| 4,4'-DDT | 6.042 | 5.970 | 6.110 | 98.070 | 100.000 | -1.9 |
| Methoxychlor | 6.616 | 6.550 | 6.690 | 225.800 | 250.000 | -9.7 |

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# PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092942.D **Date Analyzed:** 11/11/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:49

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.061 | 8.960 | 9.160 | 20.400 | 20.000 | 2.0 |
| Tetrachloro-m-xylene | 3.542 | 3.490 | 3.590 | 22.810 | 20.000 | 14.1 |
| alpha-BHC | 3.998 | 3.950 | 4.050 | 11.770 | 10.000 | 17.7 |
| beta-BHC | 4.529 | 4.480 | 4.580 | 12.130 | 10.000 | 21.3 |
| gamma-BHC (Lindane) | 4.331 | 4.280 | 4.380 | 11.570 | 10.000 | 15.7 |
| Endrin | 6.578 | 6.510 | 6.650 | 42.290 | 50.000 | -15.4 |
| 4,4'-DDT | 7.028 | 6.960 | 7.100 | 86.420 | 100.000 | -13.6 |
| Methoxychlor | 7.504 | 7.430 | 7.570 | 198.890 | 250.000 | -20.4 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092942.D **Date Analyzed:** 11/11/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:49

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.918 | 7.820 | 8.020 | 19.450 | 20.000 | -2.8 |
| Tetrachloro-m-xylene | 2.778 | 2.730 | 2.830 | 22.330 | 20.000 | 11.7 |
| alpha-BHC | 3.280 | 3.230 | 3.330 | 10.690 | 10.000 | 6.9 |
| beta-BHC | 3.911 | 3.860 | 3.960 | 11.740 | 10.000 | 17.4 |
| gamma-BHC (Lindane) | 3.611 | 3.560 | 3.660 | 10.280 | 10.000 | 2.8 |
| Endrin | 5.643 | 5.570 | 5.710 | 50.510 | 50.000 | 1.0 |
| 4,4'-DDT | 6.041 | 5.970 | 6.110 | 105.500 | 100.000 | 5.5 |
| Methoxychlor | 6.616 | 6.550 | 6.690 | 225.180 | 250.000 | -9.9 |

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Fax : 908 789 8922

# PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092972.D **Date Analyzed:** 11/11/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 20:00

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.062 | 8.960 | 9.160 | 20.460 | 20.000 | 2.3 |
| Tetrachloro-m-xylene | 3.542 | 3.490 | 3.590 | 22.530 | 20.000 | 12.7 |
| alpha-BHC | 3.998 | 3.950 | 4.050 | 11.450 | 10.000 | 14.5 |
| beta-BHC | 4.529 | 4.480 | 4.580 | 11.720 | 10.000 | 17.2 |
| gamma-BHC (Lindane) | 4.331 | 4.280 | 4.380 | 11.150 | 10.000 | 11.5 |
| Endrin | 6.579 | 6.510 | 6.650 | 41.830 | 50.000 | -16.3 |
| 4,4'-DDT | 7.029 | 6.960 | 7.100 | 82.830 | 100.000 | -17.2 |
| Methoxychlor | 7.506 | 7.440 | 7.580 | 196.860 | 250.000 | -21.3 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092972.D **Date Analyzed:** 11/11/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 20:00

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.920 | 7.820 | 8.020 | 19.420 | 20.000 | -2.9 |
| Tetrachloro-m-xylene | 2.779 | 2.730 | 2.830 | 21.700 | 20.000 | 8.5 |
| alpha-BHC | 3.282 | 3.230 | 3.330 | 10.340 | 10.000 | 3.4 |
| beta-BHC | 3.912 | 3.860 | 3.960 | 11.670 | 10.000 | 16.7 |
| gamma-BHC (Lindane) | 3.612 | 3.560 | 3.660 | 9.880 | 10.000 | -1.2 |
| Endrin | 5.644 | 5.570 | 5.710 | 48.440 | 50.000 | -3.1 |
| 4,4'-DDT | 6.042 | 5.970 | 6.110 | 95.830 | 100.000 | -4.2 |
| Methoxychlor | 6.618 | 6.550 | 6.690 | 221.160 | 250.000 | -11.5 |

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Fax : 908 789 8922

# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_L

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 10/28/2024 | 13:55 | PL092652.D | 9.05 | 3.54 |
| PEM | PEM | 10/28/2024 | 14:16 | PL092653.D | 9.06 | 3.55 |
| RESCHK | RESCHK | 10/28/2024 | 14:29 | PL092654.D | 9.05 | 3.54 |
| PSTDICC100 | PSTDICC100 | 10/28/2024 | 14:43 | PL092655.D | 9.05 | 3.54 |
| PSTDICC075 | PSTDICC075 | 10/28/2024 | 14:56 | PL092656.D | 9.05 | 3.54 |
| PSTDICC050 | PSTDICC050 | 10/28/2024 | 15:09 | PL092657.D | 9.05 | 3.54 |
| PSTDICC025 | PSTDICC025 | 10/28/2024 | 15:23 | PL092658.D | 9.05 | 3.54 |
| PSTDICC005 | PSTDICC005 | 10/28/2024 | 15:36 | PL092659.D | 9.05 | 3.54 |
| PCHLORICC500 | PCHLORICC500 | 10/28/2024 | 16:16 | PL092662.D | 9.06 | 3.54 |
| PTOXICC500 | PTOXICC500 | 10/28/2024 | 17:23 | PL092667.D | 9.05 | 3.54 |
| I.BLK | I.BLK | 11/11/2024 | 09:35 | PL092941.D | 9.06 | 3.54 |
| PEM | PEM | 11/11/2024 | 09:49 | PL092942.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/11/2024 | 11:58 | PL092943.D | 9.06 | 3.54 |
| PB164849BL | PB164849BL | 11/11/2024 | 12:12 | PL092944.D | 9.06 | 3.54 |
| PB164849BS | PB164849BS | 11/11/2024 | 12:26 | PL092945.D | 9.06 | 3.54 |
| PB164694TB | PB164694TB | 11/11/2024 | 12:40 | PL092946.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/11/2024 | 16:35 | PL092959.D | 9.07 | 3.55 |
| PSTDCCC050 | PSTDCCC050 | 11/11/2024 | 16:49 | PL092960.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/11/2024 | 19:46 | PL092971.D | 9.06 | 3.54 |
| PEM | PEM | 11/11/2024 | 20:00 | PL092972.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/11/2024 | 20:14 | PL092973.D | 9.06 | 3.54 |
| WB-307-SB02MS | P4718-03MS | 11/11/2024 | 23:01 | PL092984.D | 9.06 | 3.54 |
| WB-307-SB02MSD | P4718-03MSD | 11/11/2024 | 23:14 | PL092985.D | 9.06 | 3.54 |
| WC-1(0-6) | P4722-04 | 11/11/2024 | 23:28 | PL092986.D | 9.06 | 3.54 |
| WC-2(0-6) | P4722-09 | 11/11/2024 | 23:42 | PL092987.D | 9.06 | 3.54 |
| WC-3(0-6) | P4722-14 | 11/11/2024 | 23:56 | PL092988.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/12/2024 | 00:52 | PL092992.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/12/2024 | 01:06 | PL092993.D | 9.06 | 3.54 |

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Fax : 908 789 8922

# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_L

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 10/28/2024 | 13:55 | PL092652.D | 7.92 | 2.78 |
| PEM | PEM | 10/28/2024 | 14:16 | PL092653.D | 7.92 | 2.78 |
| RESCHK | RESCHK | 10/28/2024 | 14:29 | PL092654.D | 7.92 | 2.78 |
| PSTDICC100 | PSTDICC100 | 10/28/2024 | 14:43 | PL092655.D | 7.92 | 2.78 |
| PSTDICC075 | PSTDICC075 | 10/28/2024 | 14:56 | PL092656.D | 7.92 | 2.78 |
| PSTDICC050 | PSTDICC050 | 10/28/2024 | 15:09 | PL092657.D | 7.92 | 2.78 |
| PSTDICC025 | PSTDICC025 | 10/28/2024 | 15:23 | PL092658.D | 7.92 | 2.78 |
| PSTDICC005 | PSTDICC005 | 10/28/2024 | 15:36 | PL092659.D | 7.92 | 2.78 |
| PCHLORICC500 | PCHLORICC500 | 10/28/2024 | 16:16 | PL092662.D | 7.92 | 2.78 |
| PTOXICC500 | PTOXICC500 | 10/28/2024 | 17:23 | PL092667.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/11/2024 | 09:35 | PL092941.D | 7.92 | 2.78 |
| PEM | PEM | 11/11/2024 | 09:49 | PL092942.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/11/2024 | 11:58 | PL092943.D | 7.92 | 2.78 |
| PB164849BL | PB164849BL | 11/11/2024 | 12:12 | PL092944.D | 7.92 | 2.78 |
| PB164849BS | PB164849BS | 11/11/2024 | 12:26 | PL092945.D | 7.92 | 2.78 |
| PB164694TB | PB164694TB | 11/11/2024 | 12:40 | PL092946.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/11/2024 | 16:35 | PL092959.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/11/2024 | 16:49 | PL092960.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/11/2024 | 19:46 | PL092971.D | 7.92 | 2.78 |
| PEM | PEM | 11/11/2024 | 20:00 | PL092972.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/11/2024 | 20:14 | PL092973.D | 7.92 | 2.78 |
| WB-307-SB02MS | P4718-03MS | 11/11/2024 | 23:01 | PL092984.D | 7.92 | 2.78 |
| WB-307-SB02MSD | P4718-03MSD | 11/11/2024 | 23:14 | PL092985.D | 7.92 | 2.78 |
| WC-1(0-6) | P4722-04 | 11/11/2024 | 23:28 | PL092986.D | 7.92 | 2.78 |
| WC-2(0-6) | P4722-09 | 11/11/2024 | 23:42 | PL092987.D | 7.92 | 2.78 |
| WC-3(0-6) | P4722-14 | 11/11/2024 | 23:56 | PL092988.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/12/2024 | 00:52 | PL092992.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/12/2024 | 01:06 | PL092993.D | 7.92 | 2.78 |

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

## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB164849BS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** PB164849BS **Date(s) Analyzed:** 11/11/2024 11/11/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Methoxychlor | 1 | 7.51 | 7.46 | 7.56 | 0.46 | 8.6 |
| | 2 | 6.62 | 6.57 | 6.67 | 0.50 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 0.48 | 6 |
| | 2 | 3.61 | 3.56 | 3.66 | 0.51 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 0.49 | 7.5 |
| | 2 | 3.95 | 3.90 | 4.00 | 0.53 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 0.48 | 10.6 |
| | 2 | 4.73 | 4.68 | 4.78 | 0.53 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 0.44 | 18.6 |
| | 2 | 5.64 | 5.59 | 5.69 | 0.53 | |

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Fax : 908 789 8922

## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WB-307-SB02MS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4718-03MS **Date(s) Analyzed:** 11/11/2024 11/11/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 4.40 | 16.7 |
| | 2 | 5.64 | 5.59 | 5.69 | 5.20 | |
| Methoxychlor | 1 | 7.51 | 7.46 | 7.56 | 4.50 | 6.5 |
| | 2 | 6.62 | 6.57 | 6.67 | 4.80 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 4.60 | 6.3 |
| | 2 | 3.61 | 3.56 | 3.66 | 4.90 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 5.00 | 7.7 |
| | 2 | 3.95 | 3.90 | 4.00 | 5.40 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 4.70 | 12 |
| | 2 | 4.73 | 4.68 | 4.78 | 5.30 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WB-307-SB02MSD**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4718-03MSD **Date(s) Analyzed:** 11/11/2024 11/11/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 4.50 | 6.5 |
| | 2 | 6.62 | 6.57 | 6.67 | 4.80 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 4.60 | 6.3 |
| | 2 | 3.61 | 3.56 | 3.66 | 4.90 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 5.00 | 9.5 |
| | 2 | 3.95 | 3.90 | 4.00 | 5.50 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 4.80 | 9.9 |
| | 2 | 4.73 | 4.68 | 4.78 | 5.30 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 4.50 | 18.2 |
| | 2 | 5.64 | 5.59 | 5.69 | 5.40 | |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/08/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-03DL** | **WC-1(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-05** | **WC-1(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/07/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-08DL** | **WC-2(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-10** | **WC-2(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/08/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |

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# LAB CHRONICLE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **P4722-13DL** | **WC-3(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-15** | **WC-3(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |

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Fax : 908 789 8922

# Hit Summary Sheet
## SW-846

**SDG No.:** P4722 **Order ID:** P4722

**Client:** Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-05 | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092974.D | 1 | 11/10/24 13:30 | 11/11/24 20:42 | PB164885 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 14.0 | | 43 - 140 | 70% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.5 | | 77 - 126 | 98% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-05 | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092974.D | 1 | 11/10/24 13:30 | 11/11/24 20:42 | PB164885 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-10 | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092975.D | 1 | 11/10/24 13:30 | 11/11/24 20:56 | PB164885 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 16.5 | | 43 - 140 | 82% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 19.6 | | 77 - 126 | 98% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-10 | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092975.D | 1 | 11/10/24 13:30 | 11/11/24 20:56 | PB164885 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15 | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092976.D | 1 | 11/10/24 13:30 | 11/11/24 21:10 | PB164885 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 15.3 | | 43 - 140 | 76% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.1 | | 77 - 126 | 106% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15 | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092976.D | 1 | 11/10/24 13:30 | 11/11/24 21:10 | PB164885 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/10/24 |
| Client Sample ID: | PB164885TB | SDG No.: | P4722 |
| Lab Sample ID: | PB164885TB | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092970.D | 1 | 11/10/24 13:30 | 11/11/24 19:33 | PB164885 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.9 | | 43 - 140 | 100% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.6 | | 77 - 126 | 103% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/10/24 |
| Client Sample ID: | PB164885TB | SDG No.: | P4722 |
| Lab Sample ID: | PB164885TB | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092970.D | 1 | 11/10/24 13:30 | 11/11/24 19:33 | PB164885 |

| 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

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

## Surrogate Summary

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PL092652.D | PIBLK-PL092652.D | Decachlorobiphenyl | 1 | 20 | 22.7 | 114 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.6 | 108 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 21.7 | 109 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.4 | 102 | | 77 | 126 |
| I.BLK-PL092959.D | PIBLK-PL092959.D | Decachlorobiphenyl | 1 | 20 | 22.0 | 110 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.1 | 110 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 22.2 | 111 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.5 | 107 | | 77 | 126 |
| PB164885BL | PB164885BL | Decachlorobiphenyl | 1 | 20 | 19.4 | 97 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.4 | 102 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 19.4 | 97 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.2 | 96 | | 77 | 126 |
| PB164885BS | PB164885BS | Decachlorobiphenyl | 1 | 20 | 17.6 | 88 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 18.7 | 94 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 17.3 | 86 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 17.2 | 86 | | 77 | 126 |
| PB164885TB | PB164885TB | Decachlorobiphenyl | 1 | 20 | 19.9 | 100 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 20.6 | 103 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 19.5 | 97 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.7 | 98 | | 77 | 126 |
| I.BLK-PL092971.D | PIBLK-PL092971.D | Decachlorobiphenyl | 1 | 20 | 21.6 | 108 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.7 | 114 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 20.6 | 103 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.6 | 108 | | 77 | 126 |
| P4722-05 | WC-1(0-6) | Decachlorobiphenyl | 1 | 20 | 14.0 | 70 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.5 | 98 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 13.6 | 68 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.7 | 94 | | 77 | 126 |
| P4722-10 | WC-2(0-6) | Decachlorobiphenyl | 1 | 20 | 16.5 | 82 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 19.4 | 97 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 16.1 | 80 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.6 | 98 | | 77 | 126 |
| P4722-15 | WC-3(0-6) | Decachlorobiphenyl | 1 | 20 | 15.3 | 76 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.1 | 106 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 14.8 | 74 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.6 | 103 | | 77 | 126 |
| P4722-15MS | WC-3(0-6)MS | Decachlorobiphenyl | 1 | 20 | 15.8 | 79 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 21.5 | 107 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 15.6 | 78 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.8 | 109 | | 77 | 126 |
| P4722-15MSD | WC-3(0-6)MSD | Decachlorobiphenyl | 1 | 20 | 15.6 | 78 | | 43 | 140 |

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Fax : 908 789 8922



## Surrogate Summary

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| P4722-15MSD | WC-3(0-6)MSD | Tetrachloro-m-xylene | 1 | 20 | 21.5 | 108 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 15.3 | 76 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.7 | 108 | | 77 | 126 |
| I.BLK-PL092992.D | PIBLK-PL092992.D | Decachlorobiphenyl | 1 | 20 | 22.2 | 111 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 1 | 20 | 22.8 | 114 | | 77 | 126 |
| | | Decachlorobiphenyl | 2 | 20 | 21.8 | 109 | | 43 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.2 | 111 | | 77 | 126 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B **DataFile :** PL092977.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **WC-3(0-6)MS** | | | | | | | | | | | |
| P4722-15MS | alpha-BHC | 0.5 | 0 | 0.57 | ug/L | 115 | | | | 46 | 160 | |
| | beta-BHC | 0.5 | 0 | 0.59 | ug/L | 119 | | | | 15 | 175 | |
| | delta-BHC | 0.5 | 0 | 0.49 | ug/L | 98 | | | | 10 | 175 | |
| | gamma-BHC (Lindane) | 0.5 | 0 | 0.57 | ug/L | 114 | | | | 60 | 152 | |
| | Heptachlor | 0.5 | 0 | 0.56 | ug/L | 112 | | | | 56 | 147 | |
| | Aldrin | 0.5 | 0 | 0.53 | ug/L | 106 | | | | 45 | 147 | |
| | Heptachlor epoxide | 0.5 | 0 | 0.57 | ug/L | 114 | | | | 77 | 143 | |
| | Endosulfan I | 0.5 | 0 | 0.58 | ug/L | 117 | | | | 34 | 157 | |
| | Dieldrin | 0.5 | 0 | 0.60 | ug/L | 119 | | | | 46 | 155 | |
| | 4,4'-DDE | 0.5 | 0 | 0.57 | ug/L | 114 | | | | 36 | 162 | |
| | Endrin | 0.5 | 0 | 0.60 | ug/L | 120 | | | | 76 | 144 | |
| | Endosulfan II | 0.5 | 0 | 0.59 | ug/L | 118 | | | | 21 | 168 | |
| | 4,4'-DDD | 0.5 | 0 | 0.63 | ug/L | 126 | | | | 15 | 175 | |
| | Endosulfan sulfate | 0.5 | 0 | 0.56 | ug/L | 112 | | | | 14 | 183 | |
| | 4,4'-DDT | 0.5 | 0 | 0.52 | ug/L | 104 | | | | 15 | 175 | |
| | Methoxychlor | 0.5 | 0 | 0.51 | ug/L | 102 | | | | 70 | 142 | |
| | Endrin ketone | 0.5 | 0 | 0.57 | ug/L | 115 | | | | 25 | 172 | |
| | Endrin aldehyde | 0.5 | 0 | 0.55 | ug/L | 110 | | | | 28 | 175 | |
| | alpha-Chlordane | 0.5 | 0 | 0.58 | ug/L | 115 | | | | 34 | 160 | |
| | gamma-Chlordane | 0.5 | 0 | 0.58 | ug/L | 116 | | | | 31 | 163 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B **DataFile :** PL092978.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **WC-3(0-6)MSD** | | | | | | | | | | | |
| P4722-15MSD | alpha-BHC | 0.5 | 0 | 0.56 | ug/L | 112 | | 3 | | 46 | 160 | 20 |
| | beta-BHC | 0.5 | 0 | 0.58 | ug/L | 117 | | 2 | | 15 | 175 | 20 |
| | delta-BHC | 0.5 | 0 | 0.48 | ug/L | 96 | | 2 | | 10 | 175 | 20 |
| | gamma-BHC (Lindane) | 0.5 | 0 | 0.56 | ug/L | 112 | | 2 | | 60 | 152 | 20 |
| | Heptachlor | 0.5 | 0 | 0.55 | ug/L | 110 | | 2 | | 56 | 147 | 20 |
| | Aldrin | 0.5 | 0 | 0.52 | ug/L | 104 | | 2 | | 45 | 147 | 22 |
| | Heptachlor epoxide | 0.5 | 0 | 0.56 | ug/L | 113 | | 1 | | 77 | 143 | 20 |
| | Endosulfan I | 0.5 | 0 | 0.58 | ug/L | 115 | | 2 | | 34 | 157 | 20 |
| | Dieldrin | 0.5 | 0 | 0.59 | ug/L | 118 | | 1 | | 46 | 155 | 20 |
| | 4,4'-DDE | 0.5 | 0 | 0.57 | ug/L | 113 | | 1 | | 36 | 162 | 20 |
| | Endrin | 0.5 | 0 | 0.59 | ug/L | 118 | | 2 | | 76 | 144 | 20 |
| | Endosulfan II | 0.5 | 0 | 0.58 | ug/L | 117 | | 1 | | 21 | 168 | 20 |
| | 4,4'-DDD | 0.5 | 0 | 0.62 | ug/L | 123 | | 2 | | 15 | 175 | 20 |
| | Endosulfan sulfate | 0.5 | 0 | 0.55 | ug/L | 111 | | 1 | | 14 | 183 | 20 |
| | 4,4'-DDT | 0.5 | 0 | 0.51 | ug/L | 103 | | 1 | | 15 | 175 | 20 |
| | Methoxychlor | 0.5 | 0 | 0.50 | ug/L | 101 | | 1 | | 70 | 142 | 20 |
| | Endrin ketone | 0.5 | 0 | 0.57 | ug/L | 113 | | 2 | | 25 | 172 | 20 |
| | Endrin aldehyde | 0.5 | 0 | 0.54 | ug/L | 108 | | 2 | | 28 | 175 | 20 |
| | alpha-Chlordane | 0.5 | 0 | 0.57 | ug/L | 114 | | 1 | | 34 | 160 | 20 |
| | gamma-Chlordane | 0.5 | 0 | 0.57 | ug/L | 115 | | 1 | | 31 | 163 | 20 |

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Fax : 908 789 8922

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8081B **Datafile :** PL092969.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164885BS | alpha-BHC | 0.5 | 0.48 | ug/L | 97 | | | | 85 | 130 | |
| | beta-BHC | 0.5 | 0.50 | ug/L | 100 | | | | 83 | 126 | |
| | delta-BHC | 0.5 | 0.43 | ug/L | 85 | | | | 69 | 141 | |
| | gamma-BHC (Lindane) | 0.5 | 0.48 | ug/L | 95 | | | | 82 | 129 | |
| | Heptachlor | 0.5 | 0.48 | ug/L | 97 | | | | 79 | 127 | |
| | Aldrin | 0.5 | 0.48 | ug/L | 96 | | | | 79 | 126 | |
| | Heptachlor epoxide | 0.5 | 0.48 | ug/L | 96 | | | | 81 | 124 | |
| | Endosulfan I | 0.5 | 0.50 | ug/L | 99 | | | | 85 | 122 | |
| | Dieldrin | 0.5 | 0.50 | ug/L | 99 | | | | 83 | 125 | |
| | 4,4'-DDE | 0.5 | 0.51 | ug/L | 102 | | | | 80 | 127 | |
| | Endrin | 0.5 | 0.47 | ug/L | 94 | | | | 81 | 128 | |
| | Endosulfan II | 0.5 | 0.48 | ug/L | 96 | | | | 82 | 123 | |
| | 4,4'-DDD | 0.5 | 0.53 | ug/L | 105 | | | | 77 | 131 | |
| | Endosulfan sulfate | 0.5 | 0.48 | ug/L | 96 | | | | 76 | 129 | |
| | 4,4'-DDT | 0.5 | 0.45 | ug/L | 89 | | | | 80 | 133 | |
| | Methoxychlor | 0.5 | 0.44 | ug/L | 88 | | | | 78 | 108 | |
| | Endrin ketone | 0.5 | 0.49 | ug/L | 99 | | | | 80 | 131 | |
| | Endrin aldehyde | 0.5 | 0.46 | ug/L | 93 | | | | 82 | 127 | |
| | alpha-Chlordane | 0.5 | 0.49 | ug/L | 99 | | | | 82 | 125 | |
| | gamma-Chlordane | 0.5 | 0.50 | ug/L | 100 | | | | 82 | 125 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164885BL

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab Sample ID: PB164885BL Lab File ID: PL092968.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 11/10/2024

Date Analyzed (1): 11/11/2024 Date Analyzed (2): 11/11/2024

Time Analyzed (1): 19:05 Time Analyzed (2): 19:05

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR2 ID: 0.32 (mm) GC Column (2): ZB-MR1 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 |
|---|---|---|---|---|
| PB164885BS | PB164885BS | PL092969.D | 11/11/2024 | 11/11/2024 |
| PB164885TB | PB164885TB | PL092970.D | 11/11/2024 | 11/11/2024 |
| WC-1(0-6) | P4722-05 | PL092974.D | 11/11/2024 | 11/11/2024 |
| WC-2(0-6) | P4722-10 | PL092975.D | 11/11/2024 | 11/11/2024 |
| WC-3(0-6) | P4722-15 | PL092976.D | 11/11/2024 | 11/11/2024 |
| WC-3(0-6)MS | P4722-15MS | PL092977.D | 11/11/2024 | 11/11/2024 |
| WC-3(0-6)MSD | P4722-15MSD | PL092978.D | 11/11/2024 | 11/11/2024 |

COMMENTS:

# QC SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164885BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164885BL | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092968.D | 1 | 11/10/24 13:30 | 11/11/24 19:05 | PB164885 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 19.4 | | 43 - 140 | 97% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 20.4 | | 77 - 126 | 102% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164885BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164885BL | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092968.D | 1 | 11/10/24 13:30 | 11/11/24 19:05 | PB164885 |

| 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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 10/28/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 10/28/24 |
| Client Sample ID: | PIBLK-PL092652.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092652.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092652.D | 1 | | 10/28/24 | PL102824 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.7 | | 43 - 140 | 114% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.6 | | 77 - 126 | 108% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 10/28/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 10/28/24 |
| Client Sample ID: | PIBLK-PL092652.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092652.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092652.D | 1 | | 10/28/24 | PL102824 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/11/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/11/24 |
| Client Sample ID: | PIBLK-PL092959.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092959.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092959.D | 1 | | 11/11/24 | PL111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.2 | | 43 - 140 | 111% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.1 | | 77 - 126 | 110% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/11/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/11/24 |
| Client Sample ID: | PIBLK-PL092959.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092959.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092959.D | 1 | | 11/11/24 | PL111124 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/11/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/11/24 |
| Client Sample ID: | PIBLK-PL092971.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092971.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092971.D | 1 | | 11/11/24 | PL111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 21.6 | | 43 - 140 | 108% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.7 | | 77 - 126 | 114% | SPK: 20 |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/11/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/11/24 |
| Client Sample ID: | PIBLK-PL092971.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092971.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092971.D | 1 | | 11/11/24 | PL111124 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/12/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/12/24 |
| Client Sample ID: | PIBLK-PL092992.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092992.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092992.D | 1 | | 11/12/24 | PL111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.0061 | U | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.014 | U | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.015 | U | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.0049 | U | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.0054 | U | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.0090 | U | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.0050 | U | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.0047 | U | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.0045 | U | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.0043 | U | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.0075 | U | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.0092 | U | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.0035 | U | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.0044 | U | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.011 | U | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.0097 | U | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.0099 | U | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.0060 | U | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 22.2 | | 43 - 140 | 111% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 22.8 | | 77 - 126 | 114% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/12/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/12/24 |
| Client Sample ID: | PIBLK-PL092992.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PL092992.D | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092992.D | 1 | | 11/12/24 | PL111124 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164885BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164885BS | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092969.D | 1 | 11/10/24 13:30 | 11/11/24 19:19 | PB164885 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.48 | | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.50 | | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.43 | | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.48 | | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.48 | | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.48 | | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.48 | | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.50 | | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.50 | | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.51 | | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.47 | | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.48 | | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.53 | | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.48 | | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.45 | | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.44 | | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.49 | | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.46 | | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.49 | | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.50 | | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 17.6 | | 43 - 140 | 88% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 18.7 | | 77 - 126 | 94% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164885BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164885BS | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092969.D | 1 | 11/10/24 13:30 | 11/11/24 19:19 | PB164885 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)MS | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15MS | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092977.D | 1 | 11/10/24 13:30 | 11/11/24 21:24 | PB164885 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.57 | | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.59 | | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.49 | | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.57 | | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.56 | | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.53 | | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.57 | | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.58 | | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.60 | | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.57 | | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.60 | | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.59 | | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.63 | | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.56 | | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.52 | | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.51 | | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.57 | | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.55 | | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.58 | | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.58 | | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 15.8 | | 43 - 140 | 79% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.8 | | 77 - 126 | 109% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)MS | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15MS | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092977.D | 1 | 11/10/24 13:30 | 11/11/24 21:24 | PB164885 |

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15MSD | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092978.D | 1 | 11/10/24 13:30 | 11/11/24 21:37 | PB164885 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 319-84-6 | alpha-BHC | 0.56 | | 0.0061 | 0.050 | ug/L |
| 319-85-7 | beta-BHC | 0.58 | | 0.014 | 0.050 | ug/L |
| 319-86-8 | delta-BHC | 0.48 | | 0.015 | 0.050 | ug/L |
| 58-89-9 | gamma-BHC (Lindane) | 0.56 | | 0.0049 | 0.050 | ug/L |
| 76-44-8 | Heptachlor | 0.55 | | 0.0054 | 0.050 | ug/L |
| 309-00-2 | Aldrin | 0.52 | | 0.0044 | 0.050 | ug/L |
| 1024-57-3 | Heptachlor epoxide | 0.56 | | 0.0090 | 0.050 | ug/L |
| 959-98-8 | Endosulfan I | 0.58 | | 0.0050 | 0.050 | ug/L |
| 60-57-1 | Dieldrin | 0.59 | | 0.0047 | 0.050 | ug/L |
| 72-55-9 | 4,4-DDE | 0.57 | | 0.0045 | 0.050 | ug/L |
| 72-20-8 | Endrin | 0.59 | | 0.0043 | 0.050 | ug/L |
| 33213-65-9 | Endosulfan II | 0.58 | | 0.0075 | 0.050 | ug/L |
| 72-54-8 | 4,4-DDD | 0.62 | | 0.0092 | 0.050 | ug/L |
| 1031-07-8 | Endosulfan Sulfate | 0.55 | | 0.0035 | 0.050 | ug/L |
| 50-29-3 | 4,4-DDT | 0.51 | | 0.0044 | 0.050 | ug/L |
| 72-43-5 | Methoxychlor | 0.50 | | 0.011 | 0.050 | ug/L |
| 53494-70-5 | Endrin ketone | 0.57 | | 0.0097 | 0.050 | ug/L |
| 7421-93-4 | Endrin aldehyde | 0.54 | | 0.0099 | 0.050 | ug/L |
| 5103-71-9 | alpha-Chlordane | 0.57 | | 0.0060 | 0.050 | ug/L |
| 5103-74-2 | gamma-Chlordane | 0.57 | | 0.0060 | 0.050 | ug/L |
| 8001-35-2 | Toxaphene | 0.15 | U | 0.15 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 2051-24-3 | Decachlorobiphenyl | 15.6 | | 43 - 140 | 78% | SPK: 20 |
| 877-09-8 | Tetrachloro-m-xylene | 21.7 | | 77 - 126 | 108% | SPK: 20 |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15MSD | Matrix: | WATER |
| Analytical Method: | SW8081 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP Pesticide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PL092978.D | 1 | 11/10/24 13:30 | 11/11/24 21:37 | PB164885 |

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

Comments:

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

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

# CALIBRATION SUMMARY

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Fax : 908 789 8922

## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 14:43 15:36

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

**LAB FILE ID:** RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.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 | 6.71 | 6.71 | 6.71 | 6.71 | 6.71 | 6.61 | 6.81 |
| 4,4'-DDE | 6.19 | 6.19 | 6.19 | 6.19 | 6.19 | 6.19 | 6.09 | 6.29 |
| 4,4'-DDT | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 6.92 | 7.12 |
| Aldrin | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.16 | 5.36 |
| alpha-BHC | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 3.90 | 4.10 |
| alpha-Chlordane | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 6.02 | 5.92 | 6.12 |
| beta-BHC | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.43 | 4.63 |
| Decachlorobiphenyl | 9.05 | 9.05 | 9.05 | 9.05 | 9.05 | 9.05 | 8.95 | 9.15 |
| delta-BHC | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.77 | 4.67 | 4.87 |
| Dieldrin | 6.35 | 6.35 | 6.35 | 6.35 | 6.34 | 6.34 | 6.24 | 6.44 |
| Endosulfan I | 6.07 | 6.07 | 6.07 | 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 | 7.16 | 7.16 | 7.16 | 7.16 | 7.16 | 7.16 | 7.06 | 7.26 |
| Endrin | 6.58 | 6.58 | 6.57 | 6.57 | 6.57 | 6.57 | 6.47 | 6.67 |
| Endrin aldehyde | 6.92 | 6.92 | 6.92 | 6.92 | 6.92 | 6.92 | 6.82 | 7.02 |
| Endrin ketone | 7.64 | 7.64 | 7.64 | 7.64 | 7.64 | 7.64 | 7.54 | 7.74 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.23 | 4.43 |
| gamma-Chlordane | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.84 | 6.04 |
| Heptachlor | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.82 | 5.02 |
| Heptachlor epoxide | 5.69 | 5.69 | 5.68 | 5.69 | 5.68 | 5.68 | 5.58 | 5.78 |
| Methoxychlor | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.40 | 7.60 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.54 | 3.44 | 3.64 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 14:43 15:36

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

**LAB FILE ID:** RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

| COMPOUND | RT 100 | RT 075 | RT 050 | RT 025 | RT 005 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | 5.69 | 5.89 |
| 4,4'-DDE | 5.24 | 5.24 | 5.24 | 5.24 | 5.24 | 5.24 | 5.14 | 5.34 |
| 4,4'-DDT | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 | 6.04 | 5.94 | 6.14 |
| Aldrin | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.13 | 4.33 |
| alpha-BHC | 3.28 | 3.28 | 3.28 | 3.28 | 3.28 | 3.28 | 3.18 | 3.38 |
| alpha-Chlordane | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 4.95 | 5.15 |
| beta-BHC | 3.91 | 3.91 | 3.91 | 3.91 | 3.91 | 3.91 | 3.81 | 4.01 |
| Decachlorobiphenyl | 7.92 | 7.92 | 7.92 | 7.92 | 7.92 | 7.92 | 7.82 | 8.02 |
| delta-BHC | 4.14 | 4.14 | 4.14 | 4.14 | 4.14 | 4.14 | 4.04 | 4.24 |
| Dieldrin | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.27 | 5.47 |
| Endosulfan I | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.00 | 5.20 |
| Endosulfan II | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.84 | 6.04 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 6.34 | 6.24 | 6.44 |
| Endrin | 5.64 | 5.64 | 5.64 | 5.64 | 5.64 | 5.64 | 5.54 | 5.74 |
| Endrin aldehyde | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.12 | 6.02 | 6.22 |
| Endrin ketone | 6.84 | 6.84 | 6.84 | 6.84 | 6.84 | 6.84 | 6.74 | 6.94 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.61 | 3.61 | 3.61 | 3.61 | 3.51 | 3.71 |
| gamma-Chlordane | 4.98 | 4.98 | 4.98 | 4.98 | 4.98 | 4.98 | 4.88 | 5.08 |
| Heptachlor | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 3.85 | 4.05 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.63 | 4.83 |
| Methoxychlor | 6.61 | 6.62 | 6.62 | 6.62 | 6.61 | 6.61 | 6.51 | 6.71 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.68 | 2.88 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 14:43 15:36

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

**LAB FILE ID:** **CF 100 =** PL092655.D **CF 075 =** PL092656.D

**CF 050 =** PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 1810270000 | 1801980000 | 1817980000 | 1967770000 | 2199620000 | 1919520000 | 9 |
| 4,4'-DDE | 2254070000 | 2226390000 | 2230050000 | 2402470000 | 2732960000 | 2369190000 | 9 |
| 4,4'-DDT | 1948940000 | 1933390000 | 1940720000 | 2113460000 | 2412250000 | 2069750000 | 10 |
| Aldrin | 2847480000 | 2802990000 | 2807290000 | 3047230000 | 3502400000 | 3001480000 | 10 |
| alpha-BHC | 3356530000 | 3271880000 | 3230400000 | 3397090000 | 3701950000 | 3391570000 | 5 |
| alpha-Chlordane | 2486640000 | 2469090000 | 2489960000 | 2701720000 | 3093310000 | 2648140000 | 10 |
| beta-BHC | 1343260000 | 1339050000 | 1368530000 | 1491800000 | 1684660000 | 1445460000 | 10 |
| Decachlorobiphenyl | 1738840000 | 1756630000 | 1819720000 | 1998760000 | 2308800000 | 1924550000 | 12 |
| delta-BHC | 3067660000 | 2980040000 | 2949010000 | 3119670000 | 3533000000 | 3129870000 | 8 |
| Dieldrin | 2486930000 | 2456960000 | 2476030000 | 2679410000 | 3078050000 | 2635480000 | 10 |
| Endosulfan I | 2320690000 | 2313950000 | 2348370000 | 2546170000 | 2977620000 | 2501360000 | 11 |
| Endosulfan II | 2159880000 | 2160930000 | 2205230000 | 2449960000 | 2943170000 | 2383830000 | 14 |
| Endosulfan sulfate | 1974140000 | 1979440000 | 2024740000 | 2239840000 | 2633550000 | 2170340000 | 13 |
| Endrin | 2111540000 | 2103000000 | 2121260000 | 2324460000 | 2723040000 | 2276660000 | 12 |
| Endrin aldehyde | 1712300000 | 1718280000 | 1758160000 | 1955910000 | 2245210000 | 1877970000 | 12 |
| Endrin ketone | 2253830000 | 2246660000 | 2273910000 | 2471090000 | 2868570000 | 2422810000 | 11 |
| gamma-BHC (Lindane) | 3198960000 | 3133030000 | 3104430000 | 3278360000 | 3583040000 | 3259560000 | 6 |
| gamma-Chlordane | 2496700000 | 2477960000 | 2491940000 | 2703470000 | 3133120000 | 2660640000 | 11 |
| Heptachlor | 2817300000 | 2795570000 | 2829220000 | 3064000000 | 3509480000 | 3003110000 | 10 |
| Heptachlor epoxide | 2536240000 | 2521530000 | 2566410000 | 2821600000 | 3361270000 | 2761410000 | 13 |
| Methoxychlor | 1040530000 | 1050870000 | 1078280000 | 1189160000 | 1341160000 | 1140000000 | 11 |
| Tetrachloro-m-xylene | 2319350000 | 2304070000 | 2328420000 | 2512350000 | 2786990000 | 2450240000 | 8 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L

**Calibration Date(s):** 10/28/2024 10/28/2024

**Calibration Times:** 14:43 15:36

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

**LAB FILE ID:** **CF 100 =** PL092655.D **CF 075 =** PL092656.D

**CF 050 =** PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

| COMPOUND | CF 100 | CF 075 | CF 050 | CF 025 | CF 005 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 2614880000 | 2506250000 | 2443430000 | 2489210000 | 2396540000 | 2490060000 | 3 |
| 4,4'-DDE | 3334990000 | 3225880000 | 3154950000 | 3209960000 | 3182260000 | 3221610000 | 2 |
| 4,4'-DDT | 2797500000 | 2713050000 | 2637310000 | 2653690000 | 2609750000 | 2682260000 | 3 |
| Aldrin | 3840860000 | 3705070000 | 3619180000 | 3619340000 | 3516600000 | 3660210000 | 3 |
| alpha-BHC | 4282500000 | 4089170000 | 3973860000 | 3934480000 | 3670850000 | 3990170000 | 6 |
| alpha-Chlordane | 3409310000 | 3303380000 | 3254510000 | 3329310000 | 3333630000 | 3326030000 | 2 |
| beta-BHC | 1625150000 | 1594840000 | 1591160000 | 1661990000 | 1758110000 | 1646250000 | 4 |
| Decachlorobiphenyl | 2606810000 | 2575500000 | 2605540000 | 2793460000 | 3064890000 | 2729240000 | 8 |
| delta-BHC | 4088000000 | 3924730000 | 3802680000 | 3782230000 | 3618150000 | 3843150000 | 5 |
| Dieldrin | 3483370000 | 3364390000 | 3290100000 | 3303460000 | 3260200000 | 3340300000 | 3 |
| Endosulfan I | 3111480000 | 3032780000 | 2993580000 | 3072340000 | 3055530000 | 3053140000 | 1 |
| Endosulfan II | 2881520000 | 2813750000 | 2779930000 | 2861240000 | 2829950000 | 2833280000 | 1 |
| Endosulfan sulfate | 2707530000 | 2646200000 | 2623690000 | 2712350000 | 2794620000 | 2696880000 | 2 |
| Endrin | 2969490000 | 2878380000 | 2828080000 | 2876210000 | 2912860000 | 2893010000 | 2 |
| Endrin aldehyde | 2273700000 | 2244250000 | 2230130000 | 2333460000 | 2454860000 | 2307280000 | 4 |
| Endrin ketone | 3089790000 | 3023040000 | 3013060000 | 3097240000 | 3120850000 | 3068800000 | 2 |
| gamma-BHC (Lindane) | 4083950000 | 3934430000 | 3833920000 | 3828430000 | 3616530000 | 3859450000 | 4 |
| gamma-Chlordane | 3470230000 | 3355710000 | 3294030000 | 3342020000 | 3346470000 | 3361690000 | 2 |
| Heptachlor | 3876200000 | 3766580000 | 3709120000 | 3779090000 | 3738650000 | 3773930000 | 2 |
| Heptachlor epoxide | 3405420000 | 3318630000 | 3272090000 | 3352830000 | 3358060000 | 3341410000 | 1 |
| Methoxychlor | 1400820000 | 1385450000 | 1393920000 | 1470360000 | 1489590000 | 1428030000 | 3 |
| Tetrachloro-m-xylene | 2724750000 | 2661560000 | 2643180000 | 2728430000 | 2847900000 | 2721160000 | 3 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

**GC Column:** ZB-MR2 **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 | 23962400 |
| | | 2 | 6.44 | 6.34 | 6.54 | 13823600 |
| | | 3 | 7.06 | 6.96 | 7.16 | 79159800 |
| | | 4 | 7.15 | 7.05 | 7.25 | 59803700 |
| | | 5 | 7.93 | 7.83 | 8.03 | 45329200 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

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

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Toxaphene | 500 | 1 | 5.01 | 4.91 | 5.11 | 19952700 |
| | | 2 | 5.33 | 5.23 | 5.43 | 19749600 |
| | | 3 | 6.61 | 6.51 | 6.71 | 70222500 |
| | | 4 | 6.73 | 6.63 | 6.83 | 98337700 |
| | | 5 | 7.05 | 6.95 | 7.15 | 65479700 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 16:49 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.00 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.78 | 4.77 | 4.67 | 4.87 | -0.01 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endosulfan I | 6.08 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.00 |
| 4,4'-DDE | 6.20 | 6.19 | 6.09 | 6.29 | -0.01 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Endosulfan II | 6.80 | 6.79 | 6.69 | 6.89 | -0.01 |
| 4,4'-DDD | 6.72 | 6.71 | 6.61 | 6.81 | -0.01 |
| Endosulfan sulfate | 7.17 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.03 | 7.02 | 6.92 | 7.12 | -0.01 |
| Methoxychlor | 7.51 | 7.50 | 7.40 | 7.60 | -0.01 |
| Endrin ketone | 7.65 | 7.64 | 7.54 | 7.74 | -0.01 |
| Endrin aldehyde | 6.93 | 6.92 | 6.82 | 7.02 | -0.01 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.95 | 5.94 | 5.84 | 6.04 | -0.01 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 16:49 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| alpha-BHC | 3.28 | 3.28 | 3.18 | 3.38 | 0.00 |
| beta-BHC | 3.91 | 3.91 | 3.81 | 4.01 | 0.00 |
| delta-BHC | 4.14 | 4.14 | 4.04 | 4.24 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Aldrin | 4.23 | 4.23 | 4.13 | 4.33 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endosulfan I | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Dieldrin | 5.37 | 5.37 | 5.27 | 5.47 | 0.00 |
| 4,4'-DDE | 5.24 | 5.24 | 5.14 | 5.34 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Endosulfan II | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |
| 4,4'-DDD | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.00 |
| Endrin ketone | 6.85 | 6.84 | 6.74 | 6.94 | -0.01 |
| Endrin aldehyde | 6.12 | 6.12 | 6.02 | 6.22 | 0.00 |
| alpha-Chlordane | 5.05 | 5.05 | 4.95 | 5.15 | 0.00 |
| gamma-Chlordane | 4.98 | 4.98 | 4.88 | 5.08 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092960.D **Time Analyzed:** 16:49

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.715 | 6.610 | 6.810 | 51.350 | 50.000 | 2.7 |
| 4,4'-DDE | 6.198 | 6.093 | 6.293 | 48.590 | 50.000 | -2.8 |
| 4,4'-DDT | 7.030 | 6.923 | 7.123 | 42.060 | 50.000 | -15.9 |
| Aldrin | 5.263 | 5.158 | 5.358 | 48.090 | 50.000 | -3.8 |
| alpha-BHC | 3.999 | 3.896 | 4.096 | 50.510 | 50.000 | 1.0 |
| alpha-Chlordane | 6.024 | 5.919 | 6.119 | 47.860 | 50.000 | -4.3 |
| beta-BHC | 4.530 | 4.425 | 4.625 | 49.560 | 50.000 | -0.9 |
| Decachlorobiphenyl | 9.064 | 8.954 | 9.154 | 45.750 | 50.000 | -8.5 |
| delta-BHC | 4.777 | 4.672 | 4.872 | 49.810 | 50.000 | -0.4 |
| Dieldrin | 6.350 | 6.245 | 6.445 | 47.640 | 50.000 | -4.7 |
| Endosulfan I | 6.075 | 5.970 | 6.170 | 47.680 | 50.000 | -4.6 |
| Endosulfan II | 6.800 | 6.694 | 6.894 | 45.580 | 50.000 | -8.8 |
| Endosulfan sulfate | 7.165 | 7.058 | 7.258 | 45.750 | 50.000 | -8.5 |
| Endrin | 6.580 | 6.474 | 6.674 | 43.680 | 50.000 | -12.6 |
| Endrin aldehyde | 6.930 | 6.824 | 7.024 | 45.970 | 50.000 | -8.1 |
| Endrin ketone | 7.650 | 7.543 | 7.743 | 46.470 | 50.000 | -7.1 |
| gamma-BHC (Lindane) | 4.332 | 4.228 | 4.428 | 49.740 | 50.000 | -0.5 |
| gamma-Chlordane | 5.946 | 5.841 | 6.041 | 48.110 | 50.000 | -3.8 |
| Heptachlor | 4.921 | 4.817 | 5.017 | 46.230 | 50.000 | -7.5 |
| Heptachlor epoxide | 5.689 | 5.584 | 5.784 | 48.040 | 50.000 | -3.9 |
| Methoxychlor | 7.506 | 7.399 | 7.599 | 41.600 | 50.000 | -16.8 |
| Tetrachloro-m-xylene | 3.543 | 3.440 | 3.640 | 50.620 | 50.000 | 1.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092960.D **Time Analyzed:** 16:49

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.792 | 5.689 | 5.889 | 58.220 | 50.000 | 16.4 |
| 4,4'-DDE | 5.236 | 5.135 | 5.335 | 53.580 | 50.000 | 7.2 |
| 4,4'-DDT | 6.042 | 5.940 | 6.140 | 46.650 | 50.000 | -6.7 |
| Aldrin | 4.230 | 4.129 | 4.329 | 53.210 | 50.000 | 6.4 |
| alpha-BHC | 3.281 | 3.181 | 3.381 | 53.410 | 50.000 | 6.8 |
| alpha-Chlordane | 5.047 | 4.945 | 5.145 | 52.430 | 50.000 | 4.9 |
| beta-BHC | 3.911 | 3.810 | 4.010 | 52.360 | 50.000 | 4.7 |
| Decachlorobiphenyl | 7.920 | 7.816 | 8.016 | 47.520 | 50.000 | -5.0 |
| delta-BHC | 4.140 | 4.039 | 4.239 | 53.650 | 50.000 | 7.3 |
| Dieldrin | 5.368 | 5.266 | 5.466 | 53.090 | 50.000 | 6.2 |
| Endosulfan I | 5.103 | 5.002 | 5.202 | 50.820 | 50.000 | 1.6 |
| Endosulfan II | 5.938 | 5.836 | 6.036 | 53.070 | 50.000 | 6.1 |
| Endosulfan sulfate | 6.341 | 6.238 | 6.438 | 52.380 | 50.000 | 4.8 |
| Endrin | 5.643 | 5.541 | 5.741 | 51.290 | 50.000 | 2.6 |
| Endrin aldehyde | 6.118 | 6.015 | 6.215 | 51.660 | 50.000 | 3.3 |
| Endrin ketone | 6.847 | 6.743 | 6.943 | 53.550 | 50.000 | 7.1 |
| gamma-BHC (Lindane) | 3.611 | 3.511 | 3.711 | 52.740 | 50.000 | 5.5 |
| gamma-Chlordane | 4.983 | 4.882 | 5.082 | 52.990 | 50.000 | 6.0 |
| Heptachlor | 3.950 | 3.849 | 4.049 | 49.830 | 50.000 | -0.3 |
| Heptachlor epoxide | 4.733 | 4.632 | 4.832 | 52.930 | 50.000 | 5.9 |
| Methoxychlor | 6.617 | 6.515 | 6.715 | 45.570 | 50.000 | -8.9 |
| Tetrachloro-m-xylene | 2.779 | 2.678 | 2.878 | 51.800 | 50.000 | 3.6 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 20:14 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.00 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.78 | 4.77 | 4.67 | 4.87 | -0.01 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.00 |
| 4,4'-DDE | 6.20 | 6.19 | 6.09 | 6.29 | -0.01 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Endosulfan II | 6.80 | 6.79 | 6.69 | 6.89 | -0.01 |
| 4,4'-DDD | 6.72 | 6.71 | 6.61 | 6.81 | -0.01 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.03 | 7.02 | 6.92 | 7.12 | -0.01 |
| Methoxychlor | 7.51 | 7.50 | 7.40 | 7.60 | -0.01 |
| Endrin ketone | 7.65 | 7.64 | 7.54 | 7.74 | -0.01 |
| Endrin aldehyde | 6.93 | 6.92 | 6.82 | 7.02 | -0.01 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.95 | 5.94 | 5.84 | 6.04 | -0.01 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 20:14 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| alpha-BHC | 3.28 | 3.28 | 3.18 | 3.38 | 0.00 |
| beta-BHC | 3.91 | 3.91 | 3.81 | 4.01 | 0.00 |
| delta-BHC | 4.14 | 4.14 | 4.04 | 4.24 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Aldrin | 4.23 | 4.23 | 4.13 | 4.33 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endosulfan I | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Dieldrin | 5.37 | 5.37 | 5.27 | 5.47 | 0.00 |
| 4,4'-DDE | 5.24 | 5.24 | 5.14 | 5.34 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Endosulfan II | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |
| 4,4'-DDD | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.00 |
| Endrin ketone | 6.85 | 6.84 | 6.74 | 6.94 | -0.01 |
| Endrin aldehyde | 6.12 | 6.12 | 6.02 | 6.22 | 0.00 |
| alpha-Chlordane | 5.05 | 5.05 | 4.95 | 5.15 | 0.00 |
| gamma-Chlordane | 4.98 | 4.98 | 4.88 | 5.08 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092973.D **Time Analyzed:** 20:14

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.715 | 6.610 | 6.810 | 50.780 | 50.000 | 1.6 |
| 4,4'-DDE | 6.197 | 6.093 | 6.293 | 47.780 | 50.000 | -4.4 |
| 4,4'-DDT | 7.029 | 6.923 | 7.123 | 41.420 | 50.000 | -17.2 |
| Aldrin | 5.262 | 5.158 | 5.358 | 47.210 | 50.000 | -5.6 |
| alpha-BHC | 3.999 | 3.896 | 4.096 | 49.140 | 50.000 | -1.7 |
| alpha-Chlordane | 6.023 | 5.919 | 6.119 | 46.880 | 50.000 | -6.2 |
| beta-BHC | 4.529 | 4.425 | 4.625 | 48.080 | 50.000 | -3.8 |
| Decachlorobiphenyl | 9.063 | 8.954 | 9.154 | 43.000 | 50.000 | -14.0 |
| delta-BHC | 4.776 | 4.672 | 4.872 | 48.960 | 50.000 | -2.1 |
| Dieldrin | 6.349 | 6.245 | 6.445 | 46.620 | 50.000 | -6.8 |
| Endosulfan I | 6.074 | 5.970 | 6.170 | 46.400 | 50.000 | -7.2 |
| Endosulfan II | 6.798 | 6.694 | 6.894 | 44.940 | 50.000 | -10.1 |
| Endosulfan sulfate | 7.164 | 7.058 | 7.258 | 45.660 | 50.000 | -8.7 |
| Endrin | 6.579 | 6.474 | 6.674 | 43.010 | 50.000 | -14.0 |
| Endrin aldehyde | 6.929 | 6.824 | 7.024 | 46.140 | 50.000 | -7.7 |
| Endrin ketone | 7.649 | 7.543 | 7.743 | 45.990 | 50.000 | -8.0 |
| gamma-BHC (Lindane) | 4.331 | 4.228 | 4.428 | 48.520 | 50.000 | -3.0 |
| gamma-Chlordane | 5.945 | 5.841 | 6.041 | 46.960 | 50.000 | -6.1 |
| Heptachlor | 4.920 | 4.817 | 5.017 | 45.380 | 50.000 | -9.2 |
| Heptachlor epoxide | 5.688 | 5.584 | 5.784 | 47.490 | 50.000 | -5.0 |
| Methoxychlor | 7.505 | 7.399 | 7.599 | 42.350 | 50.000 | -15.3 |
| Tetrachloro-m-xylene | 3.542 | 3.440 | 3.640 | 49.410 | 50.000 | -1.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/11/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092973.D **Time Analyzed:** 20:14

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.792 | 5.689 | 5.889 | 54.900 | 50.000 | 9.8 |
| 4,4'-DDE | 5.236 | 5.135 | 5.335 | 51.590 | 50.000 | 3.2 |
| 4,4'-DDT | 6.042 | 5.940 | 6.140 | 43.440 | 50.000 | -13.1 |
| Aldrin | 4.231 | 4.129 | 4.329 | 51.190 | 50.000 | 2.4 |
| alpha-BHC | 3.282 | 3.181 | 3.381 | 51.560 | 50.000 | 3.1 |
| alpha-Chlordane | 5.047 | 4.945 | 5.145 | 50.130 | 50.000 | 0.3 |
| beta-BHC | 3.912 | 3.810 | 4.010 | 51.180 | 50.000 | 2.4 |
| Decachlorobiphenyl | 7.920 | 7.816 | 8.016 | 44.340 | 50.000 | -11.3 |
| delta-BHC | 4.141 | 4.039 | 4.239 | 52.690 | 50.000 | 5.4 |
| Dieldrin | 5.368 | 5.266 | 5.466 | 50.660 | 50.000 | 1.3 |
| Endosulfan I | 5.103 | 5.002 | 5.202 | 47.530 | 50.000 | -4.9 |
| Endosulfan II | 5.939 | 5.836 | 6.036 | 49.470 | 50.000 | -1.1 |
| Endosulfan sulfate | 6.341 | 6.238 | 6.438 | 49.630 | 50.000 | -0.7 |
| Endrin | 5.644 | 5.541 | 5.741 | 48.560 | 50.000 | -2.9 |
| Endrin aldehyde | 6.118 | 6.015 | 6.215 | 49.070 | 50.000 | -1.9 |
| Endrin ketone | 6.847 | 6.743 | 6.943 | 49.470 | 50.000 | -1.1 |
| gamma-BHC (Lindane) | 3.612 | 3.511 | 3.711 | 50.790 | 50.000 | 1.6 |
| gamma-Chlordane | 4.984 | 4.882 | 5.082 | 50.590 | 50.000 | 1.2 |
| Heptachlor | 3.951 | 3.849 | 4.049 | 48.630 | 50.000 | -2.7 |
| Heptachlor epoxide | 4.734 | 4.632 | 4.832 | 50.070 | 50.000 | 0.1 |
| Methoxychlor | 6.618 | 6.515 | 6.715 | 43.670 | 50.000 | -12.7 |
| Tetrachloro-m-xylene | 2.779 | 2.678 | 2.878 | 50.370 | 50.000 | 0.7 |

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Fax : 908 789 8922

# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 01:06 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.06 | 9.05 | 8.95 | 9.15 | -0.01 |
| Tetrachloro-m-xylene | 3.54 | 3.54 | 3.44 | 3.64 | 0.00 |
| alpha-BHC | 4.00 | 4.00 | 3.90 | 4.10 | 0.00 |
| beta-BHC | 4.53 | 4.53 | 4.43 | 4.63 | 0.00 |
| delta-BHC | 4.78 | 4.77 | 4.67 | 4.87 | -0.01 |
| gamma-BHC (Lindane) | 4.33 | 4.33 | 4.23 | 4.43 | 0.00 |
| Heptachlor | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Aldrin | 5.26 | 5.26 | 5.16 | 5.36 | 0.00 |
| Heptachlor epoxide | 5.69 | 5.68 | 5.58 | 5.78 | -0.01 |
| Endosulfan I | 6.07 | 6.07 | 5.97 | 6.17 | 0.00 |
| Dieldrin | 6.35 | 6.35 | 6.25 | 6.45 | 0.00 |
| 4,4'-DDE | 6.20 | 6.19 | 6.09 | 6.29 | -0.01 |
| Endrin | 6.58 | 6.57 | 6.47 | 6.67 | -0.01 |
| Endosulfan II | 6.80 | 6.79 | 6.69 | 6.89 | -0.01 |
| 4,4'-DDD | 6.71 | 6.71 | 6.61 | 6.81 | 0.00 |
| Endosulfan sulfate | 7.16 | 7.16 | 7.06 | 7.26 | 0.00 |
| 4,4'-DDT | 7.03 | 7.02 | 6.92 | 7.12 | -0.01 |
| Methoxychlor | 7.50 | 7.50 | 7.40 | 7.60 | 0.00 |
| Endrin ketone | 7.65 | 7.64 | 7.54 | 7.74 | -0.01 |
| Endrin aldehyde | 6.93 | 6.92 | 6.82 | 7.02 | -0.01 |
| alpha-Chlordane | 6.02 | 6.02 | 5.92 | 6.12 | 0.00 |
| gamma-Chlordane | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |

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Fax : 908 789 8922

# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

**Continuing Calib Time:** 01:06 **Initial Calibration Time(s):** 14:43 15:36

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

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.92 | 7.92 | 7.82 | 8.02 | 0.00 |
| Tetrachloro-m-xylene | 2.78 | 2.78 | 2.68 | 2.88 | 0.00 |
| alpha-BHC | 3.28 | 3.28 | 3.18 | 3.38 | 0.00 |
| beta-BHC | 3.91 | 3.91 | 3.81 | 4.01 | 0.00 |
| delta-BHC | 4.14 | 4.14 | 4.04 | 4.24 | 0.00 |
| gamma-BHC (Lindane) | 3.61 | 3.61 | 3.51 | 3.71 | 0.00 |
| Heptachlor | 3.95 | 3.95 | 3.85 | 4.05 | 0.00 |
| Aldrin | 4.23 | 4.23 | 4.13 | 4.33 | 0.00 |
| Heptachlor epoxide | 4.73 | 4.73 | 4.63 | 4.83 | 0.00 |
| Endosulfan I | 5.10 | 5.10 | 5.00 | 5.20 | 0.00 |
| Dieldrin | 5.37 | 5.37 | 5.27 | 5.47 | 0.00 |
| 4,4'-DDE | 5.24 | 5.24 | 5.14 | 5.34 | 0.00 |
| Endrin | 5.64 | 5.64 | 5.54 | 5.74 | 0.00 |
| Endosulfan II | 5.94 | 5.94 | 5.84 | 6.04 | 0.00 |
| 4,4'-DDD | 5.79 | 5.79 | 5.69 | 5.89 | 0.00 |
| Endosulfan sulfate | 6.34 | 6.34 | 6.24 | 6.44 | 0.00 |
| 4,4'-DDT | 6.04 | 6.04 | 5.94 | 6.14 | 0.00 |
| Methoxychlor | 6.62 | 6.62 | 6.52 | 6.72 | 0.00 |
| Endrin ketone | 6.85 | 6.84 | 6.74 | 6.94 | -0.01 |
| Endrin aldehyde | 6.12 | 6.12 | 6.02 | 6.22 | 0.00 |
| alpha-Chlordane | 5.05 | 5.05 | 4.95 | 5.15 | 0.00 |
| gamma-Chlordane | 4.98 | 4.98 | 4.88 | 5.08 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092993.D **Time Analyzed:** 01:06

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 6.714 | 6.610 | 6.810 | 52.020 | 50.000 | 4.0 |
| 4,4'-DDE | 6.196 | 6.093 | 6.293 | 48.260 | 50.000 | -3.5 |
| 4,4'-DDT | 7.026 | 6.923 | 7.123 | 40.150 | 50.000 | -19.7 |
| Aldrin | 5.261 | 5.158 | 5.358 | 47.870 | 50.000 | -4.3 |
| alpha-BHC | 3.998 | 3.896 | 4.096 | 50.010 | 50.000 | 0.0 |
| alpha-Chlordane | 6.023 | 5.919 | 6.119 | 47.060 | 50.000 | -5.9 |
| beta-BHC | 4.529 | 4.425 | 4.625 | 48.900 | 50.000 | -2.2 |
| Decachlorobiphenyl | 9.062 | 8.954 | 9.154 | 45.740 | 50.000 | -8.5 |
| delta-BHC | 4.776 | 4.672 | 4.872 | 49.800 | 50.000 | -0.4 |
| Dieldrin | 6.349 | 6.245 | 6.445 | 46.820 | 50.000 | -6.4 |
| Endosulfan I | 6.074 | 5.970 | 6.170 | 46.790 | 50.000 | -6.4 |
| Endosulfan II | 6.798 | 6.694 | 6.894 | 44.940 | 50.000 | -10.1 |
| Endosulfan sulfate | 7.163 | 7.058 | 7.258 | 45.710 | 50.000 | -8.6 |
| Endrin | 6.579 | 6.474 | 6.674 | 42.020 | 50.000 | -16.0 |
| Endrin aldehyde | 6.928 | 6.824 | 7.024 | 46.730 | 50.000 | -6.5 |
| Endrin ketone | 7.648 | 7.543 | 7.743 | 46.830 | 50.000 | -6.3 |
| gamma-BHC (Lindane) | 4.331 | 4.228 | 4.428 | 49.360 | 50.000 | -1.3 |
| gamma-Chlordane | 5.944 | 5.841 | 6.041 | 47.550 | 50.000 | -4.9 |
| Heptachlor | 4.919 | 4.817 | 5.017 | 45.840 | 50.000 | -8.3 |
| Heptachlor epoxide | 5.686 | 5.584 | 5.784 | 47.100 | 50.000 | -5.8 |
| Methoxychlor | 7.504 | 7.399 | 7.599 | 40.210 | 50.000 | -19.6 |
| Tetrachloro-m-xylene | 3.542 | 3.440 | 3.640 | 50.220 | 50.000 | 0.4 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** PSTDCCC050 **Data File :** PL092993.D **Time Analyzed:** 01:06

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 4,4'-DDD | 5.791 | 5.689 | 5.889 | 58.750 | 50.000 | 17.5 |
| 4,4'-DDE | 5.236 | 5.135 | 5.335 | 53.480 | 50.000 | 7.0 |
| 4,4'-DDT | 6.041 | 5.940 | 6.140 | 42.540 | 50.000 | -14.9 |
| Aldrin | 4.230 | 4.129 | 4.329 | 52.710 | 50.000 | 5.4 |
| alpha-BHC | 3.281 | 3.181 | 3.381 | 52.910 | 50.000 | 5.8 |
| alpha-Chlordane | 5.047 | 4.945 | 5.145 | 51.740 | 50.000 | 3.5 |
| beta-BHC | 3.911 | 3.810 | 4.010 | 52.210 | 50.000 | 4.4 |
| Decachlorobiphenyl | 7.920 | 7.816 | 8.016 | 46.990 | 50.000 | -6.0 |
| delta-BHC | 4.140 | 4.039 | 4.239 | 53.560 | 50.000 | 7.1 |
| Dieldrin | 5.367 | 5.266 | 5.466 | 52.490 | 50.000 | 5.0 |
| Endosulfan I | 5.102 | 5.002 | 5.202 | 47.690 | 50.000 | -4.6 |
| Endosulfan II | 5.938 | 5.836 | 6.036 | 51.660 | 50.000 | 3.3 |
| Endosulfan sulfate | 6.340 | 6.238 | 6.438 | 51.580 | 50.000 | 3.2 |
| Endrin | 5.643 | 5.541 | 5.741 | 48.620 | 50.000 | -2.8 |
| Endrin aldehyde | 6.117 | 6.015 | 6.215 | 51.550 | 50.000 | 3.1 |
| Endrin ketone | 6.846 | 6.743 | 6.943 | 52.610 | 50.000 | 5.2 |
| gamma-BHC (Lindane) | 3.611 | 3.511 | 3.711 | 52.480 | 50.000 | 5.0 |
| gamma-Chlordane | 4.983 | 4.882 | 5.082 | 52.130 | 50.000 | 4.3 |
| Heptachlor | 3.950 | 3.849 | 4.049 | 49.220 | 50.000 | -1.6 |
| Heptachlor epoxide | 4.733 | 4.632 | 4.832 | 51.790 | 50.000 | 3.6 |
| Methoxychlor | 6.617 | 6.515 | 6.715 | 42.960 | 50.000 | -14.1 |
| Tetrachloro-m-xylene | 2.778 | 2.678 | 2.878 | 51.720 | 50.000 | 3.4 |

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## PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092653.D **Date Analyzed:** 10/28/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 14:16

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.059 | 8.960 | 9.160 | 19.970 | 20.000 | -0.2 |
| Tetrachloro-m-xylene | 3.546 | 3.500 | 3.600 | 19.290 | 20.000 | -3.6 |
| alpha-BHC | 4.001 | 3.950 | 4.050 | 9.920 | 10.000 | -0.8 |
| beta-BHC | 4.531 | 4.480 | 4.580 | 10.060 | 10.000 | 0.6 |
| gamma-BHC (Lindane) | 4.334 | 4.280 | 4.380 | 9.660 | 10.000 | -3.4 |
| Endrin | 6.580 | 6.510 | 6.650 | 41.060 | 50.000 | -17.9 |
| 4,4'-DDT | 7.030 | 6.960 | 7.100 | 88.060 | 100.000 | -11.9 |
| Methoxychlor | 7.505 | 7.430 | 7.580 | 204.090 | 250.000 | -18.4 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092653.D **Date Analyzed:** 10/28/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 14:16

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.918 | 7.820 | 8.020 | 19.080 | 20.000 | -4.6 |
| Tetrachloro-m-xylene | 2.778 | 2.730 | 2.830 | 18.500 | 20.000 | -7.5 |
| alpha-BHC | 3.281 | 3.230 | 3.330 | 8.630 | 10.000 | -13.7 |
| beta-BHC | 3.911 | 3.860 | 3.960 | 9.760 | 10.000 | -2.4 |
| gamma-BHC (Lindane) | 3.611 | 3.560 | 3.660 | 8.390 | 10.000 | -16.1 |
| Endrin | 5.643 | 5.570 | 5.710 | 44.130 | 50.000 | -11.7 |
| 4,4'-DDT | 6.042 | 5.970 | 6.110 | 98.070 | 100.000 | -1.9 |
| Methoxychlor | 6.616 | 6.550 | 6.690 | 225.800 | 250.000 | -9.7 |

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# PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092942.D **Date Analyzed:** 11/11/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:49

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.061 | 8.960 | 9.160 | 20.400 | 20.000 | 2.0 |
| Tetrachloro-m-xylene | 3.542 | 3.490 | 3.590 | 22.810 | 20.000 | 14.1 |
| alpha-BHC | 3.998 | 3.950 | 4.050 | 11.770 | 10.000 | 17.7 |
| beta-BHC | 4.529 | 4.480 | 4.580 | 12.130 | 10.000 | 21.3 |
| gamma-BHC (Lindane) | 4.331 | 4.280 | 4.380 | 11.570 | 10.000 | 15.7 |
| Endrin | 6.578 | 6.510 | 6.650 | 42.290 | 50.000 | -15.4 |
| 4,4'-DDT | 7.028 | 6.960 | 7.100 | 86.420 | 100.000 | -13.6 |
| Methoxychlor | 7.504 | 7.430 | 7.570 | 198.890 | 250.000 | -20.4 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092942.D **Date Analyzed:** 11/11/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 09:49

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.918 | 7.820 | 8.020 | 19.450 | 20.000 | -2.8 |
| Tetrachloro-m-xylene | 2.778 | 2.730 | 2.830 | 22.330 | 20.000 | 11.7 |
| alpha-BHC | 3.280 | 3.230 | 3.330 | 10.690 | 10.000 | 6.9 |
| beta-BHC | 3.911 | 3.860 | 3.960 | 11.740 | 10.000 | 17.4 |
| gamma-BHC (Lindane) | 3.611 | 3.560 | 3.660 | 10.280 | 10.000 | 2.8 |
| Endrin | 5.643 | 5.570 | 5.710 | 50.510 | 50.000 | 1.0 |
| 4,4'-DDT | 6.041 | 5.970 | 6.110 | 105.500 | 100.000 | 5.5 |
| Methoxychlor | 6.616 | 6.550 | 6.690 | 225.180 | 250.000 | -9.9 |

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Fax : 908 789 8922

# PESTICIDE CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092972.D **Date Analyzed:** 11/11/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 20:00

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.062 | 8.960 | 9.160 | 20.460 | 20.000 | 2.3 |
| Tetrachloro-m-xylene | 3.542 | 3.490 | 3.590 | 22.530 | 20.000 | 12.7 |
| alpha-BHC | 3.998 | 3.950 | 4.050 | 11.450 | 10.000 | 14.5 |
| beta-BHC | 4.529 | 4.480 | 4.580 | 11.720 | 10.000 | 17.2 |
| gamma-BHC (Lindane) | 4.331 | 4.280 | 4.380 | 11.150 | 10.000 | 11.5 |
| Endrin | 6.579 | 6.510 | 6.650 | 41.830 | 50.000 | -16.3 |
| 4,4'-DDT | 7.029 | 6.960 | 7.100 | 82.830 | 100.000 | -17.2 |
| Methoxychlor | 7.506 | 7.440 | 7.580 | 196.860 | 250.000 | -21.3 |

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

**Client Sample No. (PEM):** PEM - PL092972.D **Date Analyzed:** 11/11/2024

**Lab Sample No.(PEM):** PEM **Time Analyzed:** 20:00

| PEM COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.920 | 7.820 | 8.020 | 19.420 | 20.000 | -2.9 |
| Tetrachloro-m-xylene | 2.779 | 2.730 | 2.830 | 21.700 | 20.000 | 8.5 |
| alpha-BHC | 3.282 | 3.230 | 3.330 | 10.340 | 10.000 | 3.4 |
| beta-BHC | 3.912 | 3.860 | 3.960 | 11.670 | 10.000 | 16.7 |
| gamma-BHC (Lindane) | 3.612 | 3.560 | 3.660 | 9.880 | 10.000 | -1.2 |
| Endrin | 5.644 | 5.570 | 5.710 | 48.440 | 50.000 | -3.1 |
| 4,4'-DDT | 6.042 | 5.970 | 6.110 | 95.830 | 100.000 | -4.2 |
| Methoxychlor | 6.618 | 6.550 | 6.690 | 221.160 | 250.000 | -11.5 |

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Fax : 908 789 8922

# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_L

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 10/28/2024 | 13:55 | PL092652.D | 9.05 | 3.54 |
| PEM | PEM | 10/28/2024 | 14:16 | PL092653.D | 9.06 | 3.55 |
| RESCHK | RESCHK | 10/28/2024 | 14:29 | PL092654.D | 9.05 | 3.54 |
| PSTDICC100 | PSTDICC100 | 10/28/2024 | 14:43 | PL092655.D | 9.05 | 3.54 |
| PSTDICC075 | PSTDICC075 | 10/28/2024 | 14:56 | PL092656.D | 9.05 | 3.54 |
| PSTDICC050 | PSTDICC050 | 10/28/2024 | 15:09 | PL092657.D | 9.05 | 3.54 |
| PSTDICC025 | PSTDICC025 | 10/28/2024 | 15:23 | PL092658.D | 9.05 | 3.54 |
| PSTDICC005 | PSTDICC005 | 10/28/2024 | 15:36 | PL092659.D | 9.05 | 3.54 |
| PCHLORICC500 | PCHLORICC500 | 10/28/2024 | 16:16 | PL092662.D | 9.06 | 3.54 |
| PTOXICC500 | PTOXICC500 | 10/28/2024 | 17:23 | PL092667.D | 9.05 | 3.54 |
| PEM | PEM | 11/11/2024 | 09:49 | PL092942.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/11/2024 | 16:35 | PL092959.D | 9.07 | 3.55 |
| PSTDCCC050 | PSTDCCC050 | 11/11/2024 | 16:49 | PL092960.D | 9.06 | 3.54 |
| PB164885BL | PB164885BL | 11/11/2024 | 19:05 | PL092968.D | 9.06 | 3.54 |
| PB164885BS | PB164885BS | 11/11/2024 | 19:19 | PL092969.D | 9.06 | 3.54 |
| PB164885TB | PB164885TB | 11/11/2024 | 19:33 | PL092970.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/11/2024 | 19:46 | PL092971.D | 9.06 | 3.54 |
| PEM | PEM | 11/11/2024 | 20:00 | PL092972.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/11/2024 | 20:14 | PL092973.D | 9.06 | 3.54 |
| WC-1(0-6) | P4722-05 | 11/11/2024 | 20:42 | PL092974.D | 9.06 | 3.54 |
| WC-2(0-6) | P4722-10 | 11/11/2024 | 20:56 | PL092975.D | 9.06 | 3.54 |
| WC-3(0-6) | P4722-15 | 11/11/2024 | 21:10 | PL092976.D | 9.06 | 3.54 |
| WC-3(0-6)MS | P4722-15MS | 11/11/2024 | 21:24 | PL092977.D | 9.06 | 3.54 |
| WC-3(0-6)MSD | P4722-15MSD | 11/11/2024 | 21:37 | PL092978.D | 9.06 | 3.54 |
| I.BLK | I.BLK | 11/12/2024 | 00:52 | PL092992.D | 9.06 | 3.54 |
| PSTDCCC050 | PSTDCCC050 | 11/12/2024 | 01:06 | PL092993.D | 9.06 | 3.54 |

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Fax : 908 789 8922

# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_L

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 10/28/2024 | 13:55 | PL092652.D | 7.92 | 2.78 |
| PEM | PEM | 10/28/2024 | 14:16 | PL092653.D | 7.92 | 2.78 |
| RESCHK | RESCHK | 10/28/2024 | 14:29 | PL092654.D | 7.92 | 2.78 |
| PSTDICC100 | PSTDICC100 | 10/28/2024 | 14:43 | PL092655.D | 7.92 | 2.78 |
| PSTDICC075 | PSTDICC075 | 10/28/2024 | 14:56 | PL092656.D | 7.92 | 2.78 |
| PSTDICC050 | PSTDICC050 | 10/28/2024 | 15:09 | PL092657.D | 7.92 | 2.78 |
| PSTDICC025 | PSTDICC025 | 10/28/2024 | 15:23 | PL092658.D | 7.92 | 2.78 |
| PSTDICC005 | PSTDICC005 | 10/28/2024 | 15:36 | PL092659.D | 7.92 | 2.78 |
| PCHLORICC500 | PCHLORICC500 | 10/28/2024 | 16:16 | PL092662.D | 7.92 | 2.78 |
| PTOXICC500 | PTOXICC500 | 10/28/2024 | 17:23 | PL092667.D | 7.92 | 2.78 |
| PEM | PEM | 11/11/2024 | 09:49 | PL092942.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/11/2024 | 16:35 | PL092959.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/11/2024 | 16:49 | PL092960.D | 7.92 | 2.78 |
| PB164885BL | PB164885BL | 11/11/2024 | 19:05 | PL092968.D | 7.92 | 2.78 |
| PB164885BS | PB164885BS | 11/11/2024 | 19:19 | PL092969.D | 7.92 | 2.78 |
| PB164885TB | PB164885TB | 11/11/2024 | 19:33 | PL092970.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/11/2024 | 19:46 | PL092971.D | 7.92 | 2.78 |
| PEM | PEM | 11/11/2024 | 20:00 | PL092972.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/11/2024 | 20:14 | PL092973.D | 7.92 | 2.78 |
| WC-1(0-6) | P4722-05 | 11/11/2024 | 20:42 | PL092974.D | 7.92 | 2.78 |
| WC-2(0-6) | P4722-10 | 11/11/2024 | 20:56 | PL092975.D | 7.92 | 2.78 |
| WC-3(0-6) | P4722-15 | 11/11/2024 | 21:10 | PL092976.D | 7.92 | 2.78 |
| WC-3(0-6)MS | P4722-15MS | 11/11/2024 | 21:24 | PL092977.D | 7.92 | 2.78 |
| WC-3(0-6)MSD | P4722-15MSD | 11/11/2024 | 21:37 | PL092978.D | 7.92 | 2.78 |
| I.BLK | I.BLK | 11/12/2024 | 00:52 | PL092992.D | 7.92 | 2.78 |
| PSTDCCC050 | PSTDCCC050 | 11/12/2024 | 01:06 | PL092993.D | 7.92 | 2.78 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB164885BS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** PB164885BS **Date(s) Analyzed:** 11/11/2024 11/11/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.80 | 6.75 | 6.85 | 0.45 | 5.7 |
| | 2 | 5.94 | 5.89 | 5.99 | 0.48 | |
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 0.50 | 4.8 |
| | 2 | 5.79 | 5.74 | 5.84 | 0.53 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 0.45 | 1.9 |
| | 2 | 6.04 | 5.99 | 6.09 | 0.44 | |
| Endrin aldehyde | 1 | 6.93 | 6.88 | 6.98 | 0.45 | 2.4 |
| | 2 | 6.12 | 6.07 | 6.17 | 0.46 | |
| Endosulfan sulfate | 1 | 7.16 | 7.11 | 7.21 | 0.44 | 8.4 |
| | 2 | 6.34 | 6.29 | 6.39 | 0.48 | |
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 0.42 | 4.4 |
| | 2 | 6.62 | 6.57 | 6.67 | 0.44 | |
| Endrin ketone | 1 | 7.65 | 7.60 | 7.70 | 0.46 | 7 |
| | 2 | 6.85 | 6.80 | 6.90 | 0.49 | |
| alpha-BHC | 1 | 4.00 | 3.95 | 4.05 | 0.47 | 4 |
| | 2 | 3.28 | 3.23 | 3.33 | 0.48 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 0.46 | 4.3 |
| | 2 | 3.61 | 3.56 | 3.66 | 0.48 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 0.45 | 6 |
| | 2 | 3.95 | 3.90 | 4.00 | 0.48 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 0.44 | 7.9 |
| | 2 | 4.23 | 4.18 | 4.28 | 0.48 | |
| beta-BHC | 1 | 4.53 | 4.48 | 4.58 | 0.47 | 5.6 |
| | 2 | 3.91 | 3.86 | 3.96 | 0.50 | |
| delta-BHC | 1 | 4.78 | 4.73 | 4.83 | 0.41 | 3.9 |
| | 2 | 4.14 | 4.09 | 4.19 | 0.43 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 0.43 | 10.6 |
| | 2 | 4.73 | 4.68 | 4.78 | 0.48 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB164885BS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** PB164885BS **Date(s) Analyzed:** 11/11/2024 11/11/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 0.46 | 8.4 |
| | 2 | 5.10 | 5.05 | 5.15 | 0.50 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 0.47 | 6.6 |
| | 2 | 4.98 | 4.93 | 5.03 | 0.50 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 0.46 | 6.7 |
| | 2 | 5.05 | 5.00 | 5.10 | 0.49 | |
| 4,4'-DDE | 1 | 6.20 | 6.15 | 6.25 | 0.48 | 6.2 |
| | 2 | 5.24 | 5.19 | 5.29 | 0.51 | |
| Dieldrin | 1 | 6.35 | 6.30 | 6.40 | 0.46 | 7.3 |
| | 2 | 5.37 | 5.32 | 5.42 | 0.50 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 0.41 | 13.2 |
| | 2 | 5.64 | 5.59 | 5.69 | 0.47 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WC-3(0-6)MS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4722-15MS **Date(s) Analyzed:** 11/11/2024 11/11/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.80 | 6.75 | 6.85 | 0.52 | 13.9 |
| | 2 | 5.94 | 5.89 | 5.99 | 0.59 | |
| 4,4'-DDD | 1 | 6.71 | 6.66 | 6.76 | 0.57 | 10.5 |
| | 2 | 5.79 | 5.74 | 5.84 | 0.63 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 0.50 | 4.9 |
| | 2 | 6.04 | 5.99 | 6.09 | 0.52 | |
| Endrin aldehyde | 1 | 6.93 | 6.88 | 6.98 | 0.50 | 8.6 |
| | 2 | 6.12 | 6.07 | 6.17 | 0.55 | |
| Endosulfan sulfate | 1 | 7.16 | 7.11 | 7.21 | 0.50 | 11.7 |
| | 2 | 6.34 | 6.29 | 6.39 | 0.56 | |
| Methoxychlor | 1 | 7.50 | 7.45 | 7.55 | 0.48 | 5.1 |
| | 2 | 6.62 | 6.57 | 6.67 | 0.51 | |
| Endrin ketone | 1 | 7.65 | 7.60 | 7.70 | 0.52 | 10.3 |
| | 2 | 6.85 | 6.80 | 6.90 | 0.57 | |
| alpha-BHC | 1 | 4.00 | 3.95 | 4.05 | 0.54 | 5.1 |
| | 2 | 3.28 | 3.23 | 3.33 | 0.57 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 0.56 | 2.3 |
| | 2 | 3.61 | 3.56 | 3.66 | 0.57 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 0.51 | 9.5 |
| | 2 | 3.95 | 3.90 | 4.00 | 0.56 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 0.49 | 8.4 |
| | 2 | 4.23 | 4.18 | 4.28 | 0.53 | |
| beta-BHC | 1 | 4.53 | 4.48 | 4.58 | 0.55 | 7.1 |
| | 2 | 3.91 | 3.86 | 3.96 | 0.59 | |
| delta-BHC | 1 | 4.78 | 4.73 | 4.83 | 0.48 | 0.9 |
| | 2 | 4.14 | 4.09 | 4.19 | 0.49 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 0.52 | 8.9 |
| | 2 | 4.73 | 4.68 | 4.78 | 0.57 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WC-3(0-6)MS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4722-15MS **Date(s) Analyzed:** 11/11/2024 11/11/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 0.53 | 9.4 |
| | 2 | 5.10 | 5.05 | 5.15 | 0.58 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 0.53 | 9.5 |
| | 2 | 4.98 | 4.93 | 5.03 | 0.58 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 0.52 | 9.4 |
| | 2 | 5.05 | 5.00 | 5.10 | 0.58 | |
| 4,4'-DDE | 1 | 6.20 | 6.15 | 6.25 | 0.51 | 10.4 |
| | 2 | 5.24 | 5.19 | 5.29 | 0.57 | |
| Dieldrin | 1 | 6.35 | 6.30 | 6.40 | 0.53 | 11.3 |
| | 2 | 5.37 | 5.32 | 5.42 | 0.60 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 0.50 | 17.5 |
| | 2 | 5.64 | 5.59 | 5.69 | 0.60 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WC-3(0-6)MSD**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4722-15MSD **Date(s) Analyzed:** 11/11/2024 11/11/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan II | 1 | 6.80 | 6.75 | 6.85 | 0.51 | 14.1 |
| | 2 | 5.94 | 5.89 | 5.99 | 0.58 | |
| 4,4'-DDD | 1 | 6.72 | 6.67 | 6.77 | 0.56 | 10 |
| | 2 | 5.79 | 5.74 | 5.84 | 0.62 | |
| 4,4'-DDT | 1 | 7.03 | 6.98 | 7.08 | 0.49 | 5.2 |
| | 2 | 6.04 | 5.99 | 6.09 | 0.51 | |
| Endrin aldehyde | 1 | 6.93 | 6.88 | 6.98 | 0.50 | 7.8 |
| | 2 | 6.12 | 6.07 | 6.17 | 0.54 | |
| Endosulfan sulfate | 1 | 7.16 | 7.11 | 7.21 | 0.49 | 11.5 |
| | 2 | 6.34 | 6.29 | 6.39 | 0.55 | |
| Methoxychlor | 1 | 7.51 | 7.46 | 7.56 | 0.48 | 4.8 |
| | 2 | 6.62 | 6.57 | 6.67 | 0.50 | |
| Endrin ketone | 1 | 7.65 | 7.60 | 7.70 | 0.51 | 10.1 |
| | 2 | 6.85 | 6.80 | 6.90 | 0.57 | |
| alpha-BHC | 1 | 4.00 | 3.95 | 4.05 | 0.54 | 4.8 |
| | 2 | 3.28 | 3.23 | 3.33 | 0.56 | |
| gamma-BHC (Lindane) | 1 | 4.33 | 4.28 | 4.38 | 0.53 | 6.4 |
| | 2 | 3.61 | 3.56 | 3.66 | 0.56 | |
| Heptachlor | 1 | 4.92 | 4.87 | 4.97 | 0.50 | 9.6 |
| | 2 | 3.95 | 3.90 | 4.00 | 0.55 | |
| Aldrin | 1 | 5.26 | 5.21 | 5.31 | 0.48 | 8.3 |
| | 2 | 4.23 | 4.18 | 4.28 | 0.52 | |
| beta-BHC | 1 | 4.53 | 4.48 | 4.58 | 0.55 | 6.9 |
| | 2 | 3.91 | 3.86 | 3.96 | 0.58 | |
| delta-BHC | 1 | 4.78 | 4.73 | 4.83 | 0.48 | 0 |
| | 2 | 4.14 | 4.09 | 4.19 | 0.48 | |
| Heptachlor epoxide | 1 | 5.69 | 5.64 | 5.74 | 0.51 | 9.2 |
| | 2 | 4.73 | 4.68 | 4.78 | 0.56 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WC-3(0-6)MSD**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4722-15MSD **Date(s) Analyzed:** 11/11/2024 11/11/2024

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

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

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| Endosulfan I | 1 | 6.07 | 6.02 | 6.12 | 0.52 | 9.9 |
| | 2 | 5.10 | 5.05 | 5.15 | 0.58 | |
| gamma-Chlordane | 1 | 5.94 | 5.89 | 5.99 | 0.52 | 9.1 |
| | 2 | 4.98 | 4.93 | 5.03 | 0.57 | |
| alpha-Chlordane | 1 | 6.02 | 5.97 | 6.07 | 0.52 | 10.2 |
| | 2 | 5.05 | 5.00 | 5.10 | 0.57 | |
| 4,4'-DDE | 1 | 6.20 | 6.15 | 6.25 | 0.51 | 10.7 |
| | 2 | 5.24 | 5.19 | 5.29 | 0.57 | |
| Dieldrin | 1 | 6.35 | 6.30 | 6.40 | 0.52 | 11.4 |
| | 2 | 5.37 | 5.32 | 5.42 | 0.59 | |
| Endrin | 1 | 6.58 | 6.53 | 6.63 | 0.50 | 17.5 |
| | 2 | 5.64 | 5.59 | 5.69 | 0.59 | |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722 **Order ID:** P4722

**Client:** Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : WC-1(0-6)** | | | | | | | | |
| P4722-03 | WC-1(0-6) | SOIL | Aroclor-1254 | 60.7 | P | 2.90 | 18.1 | ug/kg |
| P4722-03 | WC-1(0-6) | SOIL | Aroclor-1260 | 54.7 | | 3.10 | 18.1 | ug/kg |
| | | | **Total Concentration:** | **115.400** | | | | |
| **Client ID : WC-2(0-6)** | | | | | | | | |
| P4722-08 | WC-2(0-6) | SOIL | Aroclor-1254 | 41.7 | | 3.00 | 18.8 | ug/kg |
| P4722-08 | WC-2(0-6) | SOIL | Aroclor-1260 | 43.2 | | 3.20 | 18.8 | ug/kg |
| | | | **Total Concentration:** | **84.900** | | | | |
| **Client ID : WC-3(0-6)** | | | | | | | | |
| P4722-13 | WC-3(0-6) | SOIL | Aroclor-1254 | 116 | | 3.20 | 19.6 | ug/kg |
| P4722-13 | WC-3(0-6) | SOIL | Aroclor-1260 | 78.8 | | 3.40 | 19.6 | ug/kg |
| | | | **Total Concentration:** | **194.800** | | | | |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 93.8 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 |
|---|---|---|---|---|
| PO107781.D | 1 | 11/07/24 08:40 | 11/07/24 14:31 | PB164748 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.60 | U | 3.60 | 18.1 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.80 | U | 6.80 | 18.1 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.60 | U | 3.60 | 18.1 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.60 | U | 3.60 | 18.1 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.40 | U | 8.40 | 18.1 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 60.7 | P | 2.90 | 18.1 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.90 | U | 4.90 | 18.1 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.60 | U | 3.60 | 18.1 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 54.7 | | 3.10 | 18.1 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.1 | | 32 - 144 | 106% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 24.3 | | 32 - 175 | 121% | SPK: 20 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 90.1 Decanted: |
| Sample Wt/Vol: | 30.1 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 |
|---|---|---|---|---|
| PO107782.D | 1 | 11/07/24 08:40 | 11/07/24 14:47 | PB164748 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.70 | U | 3.70 | 18.8 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 7.10 | U | 7.10 | 18.8 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.80 | U | 3.80 | 18.8 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.70 | U | 3.70 | 18.8 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.70 | U | 8.70 | 18.8 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 41.7 | | 3.00 | 18.8 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.10 | U | 5.10 | 18.8 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.80 | U | 3.80 | 18.8 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 43.2 | | 3.20 | 18.8 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.4 | | 32 - 144 | 97% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 20.6 | | 32 - 175 | 103% | SPK: 20 |

Comments:

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 86.6 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 |
|---|---|---|---|---|
| PO107783.D | 1 | 11/07/24 08:40 | 11/07/24 15:04 | PB164748 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.90 | U | 3.90 | 19.6 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 7.40 | U | 7.40 | 19.6 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.90 | U | 3.90 | 19.6 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.90 | U | 3.90 | 19.6 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 9.10 | U | 9.10 | 19.6 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 116 | | 3.20 | 19.6 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.30 | U | 5.30 | 19.6 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 4.00 | U | 4.00 | 19.6 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 78.8 | | 3.40 | 19.6 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.0 | | 32 - 144 | 100% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 17.7 | | 32 - 175 | 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

# QC SUMMARY

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## Surrogate Summary

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8082A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PO107183.D | PIBLK-PO107183.D | Tetrachloro-m-xylene | 1 | 20 | 22.5 | 112 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 23.4 | 117 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 22.1 | 110 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 22.8 | 114 | | 60 | 140 |
| I.BLK-PO107773.D | PIBLK-PO107773.D | Tetrachloro-m-xylene | 1 | 20 | 20.8 | 104 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 21.9 | 109 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.8 | 104 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 22.9 | 114 | | 60 | 140 |
| PB164748BL | PB164748BL | Tetrachloro-m-xylene | 1 | 20 | 20.0 | 100 | | 32 | 144 |
| | | Decachlorobiphenyl | 1 | 20 | 21.5 | 108 | | 32 | 175 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.9 | 100 | | 32 | 144 |
| | | Decachlorobiphenyl | 2 | 20 | 21.9 | 110 | | 32 | 175 |
| PB164748BS | PB164748BS | Tetrachloro-m-xylene | 1 | 20 | 21.3 | 107 | | 32 | 144 |
| | | Decachlorobiphenyl | 1 | 20 | 22.4 | 112 | | 32 | 175 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.2 | 101 | | 32 | 144 |
| | | Decachlorobiphenyl | 2 | 20 | 23.2 | 116 | | 32 | 175 |
| P4720-01MS | JC-701-COMP-01MS | Tetrachloro-m-xylene | 1 | 20 | 23.1 | 116 | | 32 | 144 |
| | | Decachlorobiphenyl | 1 | 20 | 26.4 | 132 | | 32 | 175 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.9 | 110 | | 32 | 144 |
| | | Decachlorobiphenyl | 2 | 20 | 29.5 | 148 | | 32 | 175 |
| P4720-01MSD | JC-701-COMP-01MSD | Tetrachloro-m-xylene | 1 | 20 | 22.8 | 114 | | 32 | 144 |
| | | Decachlorobiphenyl | 1 | 20 | 27.3 | 136 | | 32 | 175 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.9 | 109 | | 32 | 144 |
| | | Decachlorobiphenyl | 2 | 20 | 29.8 | 149 | | 32 | 175 |
| P4722-03 | WC-1(0-6) | Tetrachloro-m-xylene | 1 | 20 | 18.8 | 94 | | 32 | 144 |
| | | Decachlorobiphenyl | 1 | 20 | 24.3 | 121 | | 32 | 175 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.1 | 106 | | 32 | 144 |
| | | Decachlorobiphenyl | 2 | 20 | 20.1 | 101 | | 32 | 175 |
| P4722-08 | WC-2(0-6) | Tetrachloro-m-xylene | 1 | 20 | 15.5 | 78 | | 32 | 144 |
| | | Decachlorobiphenyl | 1 | 20 | 20.6 | 103 | | 32 | 175 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.4 | 97 | | 32 | 144 |
| | | Decachlorobiphenyl | 2 | 20 | 16.6 | 83 | | 32 | 175 |
| P4722-13 | WC-3(0-6) | Tetrachloro-m-xylene | 1 | 20 | 17.6 | 88 | | 32 | 144 |
| | | Decachlorobiphenyl | 1 | 20 | 17.7 | 89 | | 32 | 175 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.0 | 100 | | 32 | 144 |
| | | Decachlorobiphenyl | 2 | 20 | 14.5 | 73 | | 32 | 175 |
| I.BLK-PO107788.D | PIBLK-PO107788.D | Tetrachloro-m-xylene | 1 | 20 | 20.4 | 102 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 19.8 | 99 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.8 | 104 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 18.6 | 93 | | 60 | 140 |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8082A **DataFile :** PO107779.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **JC-701-COMP-01MS** | | | | | | | | | | | |
| P4720-01MS | AR1016 | 183.5 | 0 | 203 | ug/kg | 111 | | | | 55 | 146 | |
| | AR1260 | 183.5 | 25.7 | 232 | ug/kg | 112 | | | | 45 | 144 | |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8082A **DataFile :** PO107780.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **JC-701-COMP-01MSD** | | | | | | | | | | | |
| P4720-01MSD | AR1016 | 183.6 | 0 | 204 | ug/kg | 111 | | 0 | | 55 | 146 | 20 |
| | AR1260 | 183.6 | 25.7 | 233 | ug/kg | 113 | | 1 | | 45 | 144 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8082A **Datafile :** PO107776.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164748BS | AR1016 | 166.6 | 163 | ug/kg | 98 | | | | 71 | 120 | |
| | AR1260 | 166.6 | 167 | ug/kg | 100 | | | | 65 | 130 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164748BL

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab Sample ID: PB164748BL Lab File ID: PO107775.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 11/07/2024

Date Analyzed (1): 11/07/2024 Date Analyzed (2): 11/07/2024

Time Analyzed (1): 12:54 Time Analyzed (2): 12:54

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 |
|---|---|---|---|---|
| PB164748BS | PB164748BS | PO107776.D | 11/07/2024 | 11/07/2024 |
| JC-701-COMP-01MS | P4720-01MS | PO107779.D | 11/07/2024 | 11/07/2024 |
| JC-701-COMP-01MSD | P4720-01MSD | PO107780.D | 11/07/2024 | 11/07/2024 |
| WC-1(0-6) | P4722-03 | PO107781.D | 11/07/2024 | 11/07/2024 |
| WC-2(0-6) | P4722-08 | PO107782.D | 11/07/2024 | 11/07/2024 |
| WC-3(0-6) | P4722-13 | PO107783.D | 11/07/2024 | 11/07/2024 |

COMMENTS:

# CALIBRATION SUMMARY

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

**Calibration Times:** 18:27 02:36

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

**LAB FILE ID:** RT 1000 = PO107184.D RT 750 = PO107185.D

RT 500 = PO107186.D RT 250 = PO107187.D RT 050 = PO107188.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.52 | 5.52 | 5.52 | 5.52 | 5.52 | 5.52 | 5.42 | 5.62 |
| Aroclor-1016-2 | (2) | 5.54 | 5.55 | 5.55 | 5.54 | 5.54 | 5.54 | 5.44 | 5.64 |
| Aroclor-1016-3 | (3) | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.51 | 5.71 |
| Aroclor-1016-4 | (4) | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.60 | 5.80 |
| Aroclor-1016-5 | (5) | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 5.90 | 6.10 |
| Aroclor-1260-1 | (1) | 7.12 | 7.13 | 7.13 | 7.12 | 7.13 | 7.13 | 7.03 | 7.23 |
| Aroclor-1260-2 | (2) | 7.38 | 7.38 | 7.38 | 7.38 | 7.38 | 7.38 | 7.28 | 7.48 |
| Aroclor-1260-3 | (3) | 7.74 | 7.74 | 7.74 | 7.74 | 7.74 | 7.74 | 7.64 | 7.84 |
| Aroclor-1260-4 | (4) | 7.97 | 7.97 | 7.97 | 7.97 | 7.97 | 7.97 | 7.87 | 8.07 |
| Aroclor-1260-5 | (5) | 8.28 | 8.28 | 8.28 | 8.28 | 8.28 | 8.28 | 8.18 | 8.38 |
| Decachlorobiphenyl | | 10.06 | 10.06 | 10.06 | 10.06 | 10.06 | 10.06 | 9.96 | 10.16 |
| Tetrachloro-m-xylene | | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.27 | 4.47 |
| Aroclor-1242-1 | (1) | 5.52 | 5.52 | 5.52 | 5.52 | 5.52 | 5.52 | 5.42 | 5.62 |
| Aroclor-1242-2 | (2) | 5.55 | 5.54 | 5.54 | 5.54 | 5.54 | 5.54 | 5.44 | 5.64 |
| Aroclor-1242-3 | (3) | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.51 | 5.71 |
| Aroclor-1242-4 | (4) | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.60 | 5.80 |
| Aroclor-1242-5 | (5) | 6.44 | 6.44 | 6.44 | 6.44 | 6.44 | 6.44 | 6.34 | 6.54 |
| Decachlorobiphenyl | | 10.06 | 10.06 | 10.06 | 10.06 | 10.06 | 10.06 | 9.96 | 10.16 |
| Tetrachloro-m-xylene | | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.27 | 4.47 |
| Aroclor-1248-1 | (1) | 5.52 | 5.52 | 5.52 | 5.52 | 5.52 | 5.52 | 5.42 | 5.62 |
| Aroclor-1248-2 | (2) | 5.80 | 5.80 | 5.80 | 5.80 | 5.80 | 5.80 | 5.70 | 5.90 |
| Aroclor-1248-3 | (3) | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 5.90 | 6.10 |
| Aroclor-1248-4 | (4) | 6.40 | 6.40 | 6.40 | 6.40 | 6.40 | 6.40 | 6.30 | 6.50 |
| Aroclor-1248-5 | (5) | 6.44 | 6.44 | 6.44 | 6.44 | 6.44 | 6.44 | 6.34 | 6.54 |
| Decachlorobiphenyl | | 10.06 | 10.06 | 10.06 | 10.06 | 10.06 | 10.06 | 9.96 | 10.16 |
| Tetrachloro-m-xylene | | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.27 | 4.47 |
| Aroclor-1254-1 | (1) | 6.37 | 6.37 | 6.38 | 6.37 | 6.38 | 6.37 | 6.27 | 6.47 |
| Aroclor-1254-2 | (2) | 6.59 | 6.59 | 6.59 | 6.59 | 6.59 | 6.59 | 6.49 | 6.69 |
| Aroclor-1254-3 | (3) | 6.96 | 6.96 | 6.96 | 6.96 | 6.96 | 6.96 | 6.86 | 7.06 |
| Aroclor-1254-4 | (4) | 7.24 | 7.24 | 7.24 | 7.24 | 7.24 | 7.24 | 7.14 | 7.34 |
| Aroclor-1254-5 | (5) | 7.66 | 7.66 | 7.66 | 7.66 | 7.66 | 7.66 | 7.56 | 7.76 |
| Decachlorobiphenyl | | 10.06 | 10.06 | 10.06 | 10.06 | 10.06 | 10.06 | 9.96 | 10.16 |
| Tetrachloro-m-xylene | | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.27 | 4.47 |
| Aroclor-1268-1 | (1) | 8.59 | 8.59 | 8.59 | 8.59 | 8.59 | 8.59 | 8.49 | 8.69 |
| Aroclor-1268-2 | (2) | 8.68 | 8.68 | 8.68 | 8.68 | 8.68 | 8.68 | 8.58 | 8.78 |
| Aroclor-1268-3 | (3) | 8.91 | 8.91 | 8.91 | 8.91 | 8.91 | 8.91 | 8.81 | 9.01 |
| Aroclor-1268-4 | (4) | 9.31 | 9.31 | 9.31 | 9.31 | 9.31 | 9.31 | 9.21 | 9.41 |
| Aroclor-1268-5 | (5) | 9.72 | 9.72 | 9.72 | 9.72 | 9.72 | 9.72 | 9.62 | 9.82 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 10.06 | 10.06 | 10.06 | 10.06 | 10.06 | 10.06 | 9.96 | 10.16 |
| Tetrachloro-m-xylene | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.27 | 4.47 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

**Calibration Times:** 18:27 02:36

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

**LAB FILE ID:** RT 1000 = PO107184.D RT 750 = PO107185.D

RT 500 = PO107186.D RT 250 = PO107187.D RT 050 = PO107188.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.63 | 4.83 |
| Aroclor-1016-2 | (2) | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.65 | 4.85 |
| Aroclor-1016-3 | (3) | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.82 | 5.02 |
| Aroclor-1016-4 | (4) | 4.96 | 4.96 | 4.96 | 4.96 | 4.96 | 4.96 | 4.86 | 5.06 |
| Aroclor-1016-5 | (5) | 5.18 | 5.18 | 5.18 | 5.18 | 5.18 | 5.18 | 5.08 | 5.28 |
| Aroclor-1260-1 | (1) | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.11 | 6.31 |
| Aroclor-1260-2 | (2) | 6.39 | 6.39 | 6.39 | 6.39 | 6.40 | 6.39 | 6.29 | 6.49 |
| Aroclor-1260-3 | (3) | 6.55 | 6.55 | 6.55 | 6.55 | 6.55 | 6.55 | 6.45 | 6.65 |
| Aroclor-1260-4 | (4) | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 6.92 | 7.12 |
| Aroclor-1260-5 | (5) | 7.26 | 7.26 | 7.26 | 7.26 | 7.26 | 7.26 | 7.16 | 7.36 |
| Decachlorobiphenyl | | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.54 | 8.74 |
| Tetrachloro-m-xylene | | 3.64 | 3.64 | 3.65 | 3.64 | 3.64 | 3.64 | 3.54 | 3.74 |
| Aroclor-1242-1 | (1) | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.63 | 4.83 |
| Aroclor-1242-2 | (2) | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.75 | 4.65 | 4.85 |
| Aroclor-1242-3 | (3) | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.82 | 5.02 |
| Aroclor-1242-4 | (4) | 5.00 | 5.01 | 5.00 | 5.01 | 5.00 | 5.00 | 4.90 | 5.10 |
| Aroclor-1242-5 | (5) | 5.53 | 5.53 | 5.53 | 5.53 | 5.53 | 5.53 | 5.43 | 5.63 |
| Decachlorobiphenyl | | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.54 | 8.74 |
| Tetrachloro-m-xylene | | 3.64 | 3.64 | 3.64 | 3.65 | 3.64 | 3.64 | 3.54 | 3.74 |
| Aroclor-1248-1 | (1) | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.73 | 4.63 | 4.83 |
| Aroclor-1248-2 | (2) | 4.96 | 4.96 | 4.96 | 4.96 | 4.96 | 4.96 | 4.86 | 5.06 |
| Aroclor-1248-3 | (3) | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 4.90 | 5.10 |
| Aroclor-1248-4 | (4) | 5.18 | 5.18 | 5.18 | 5.18 | 5.18 | 5.18 | 5.08 | 5.28 |
| Aroclor-1248-5 | (5) | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.47 | 5.67 |
| Decachlorobiphenyl | | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.54 | 8.74 |
| Tetrachloro-m-xylene | | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.54 | 3.74 |
| Aroclor-1254-1 | (1) | 5.53 | 5.53 | 5.53 | 5.53 | 5.53 | 5.53 | 5.43 | 5.63 |
| Aroclor-1254-2 | (2) | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.57 | 5.77 |
| Aroclor-1254-3 | (3) | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 5.98 | 6.18 |
| Aroclor-1254-4 | (4) | 6.30 | 6.30 | 6.30 | 6.31 | 6.30 | 6.30 | 6.20 | 6.40 |
| Aroclor-1254-5 | (5) | 6.72 | 6.72 | 6.72 | 6.72 | 6.72 | 6.72 | 6.62 | 6.82 |
| Decachlorobiphenyl | | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.54 | 8.74 |
| Tetrachloro-m-xylene | | 3.65 | 3.64 | 3.64 | 3.64 | 3.65 | 3.64 | 3.54 | 3.74 |
| Aroclor-1268-1 | (1) | 7.54 | 7.54 | 7.54 | 7.54 | 7.54 | 7.54 | 7.44 | 7.64 |
| Aroclor-1268-2 | (2) | 7.61 | 7.61 | 7.61 | 7.61 | 7.61 | 7.61 | 7.51 | 7.71 |
| Aroclor-1268-3 | (3) | 7.81 | 7.81 | 7.81 | 7.81 | 7.81 | 7.81 | 7.71 | 7.91 |
| Aroclor-1268-4 | (4) | 8.10 | 8.10 | 8.10 | 8.10 | 8.10 | 8.10 | 8.00 | 8.20 |
| Aroclor-1268-5 | (5) | 8.39 | 8.39 | 8.39 | 8.39 | 8.39 | 8.39 | 8.29 | 8.49 |

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Fax : 908 789 8922

**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.64 | 8.54 | 8.74 |
| Tetrachloro-m-xylene | 3.65 | 3.64 | 3.65 | 3.64 | 3.65 | 3.65 | 3.55 | 3.75 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

**Calibration Times:** 18:27 02:36

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

**LAB FILE ID:** **CF 1000 =** PO107184.D **CF 750 =** PO107185.D

**CF 500 =** PO107186.D **CF 250 =** PO107187.D **CF 050 =** PO107188.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 252081604 | 261702867 | 271939076 | 291118488 | 272229420 | 269814291 | 5 |
| Aroclor-1016-2 | (2) | 373760062 | 383028583 | 397887352 | 419075308 | 410673320 | 396884925 | 5 |
| Aroclor-1016-3 | (3) | 234678633 | 244145249 | 256575754 | 276405664 | 244042480 | 251169556 | 6 |
| Aroclor-1016-4 | (4) | 185622493 | 193848624 | 202963902 | 215081552 | 165543020 | 192611918 | 10 |
| Aroclor-1016-5 | (5) | 176326470 | 182141932 | 191487930 | 203514892 | 159796500 | 182653545 | 9 |
| Aroclor-1260-1 | (1) | 238480871 | 246497651 | 259155974 | 277220676 | 271587560 | 258588546 | 6 |
| Aroclor-1260-2 | (2) | 243402558 | 251747185 | 264083512 | 284216460 | 272650860 | 263220115 | 6 |
| Aroclor-1260-3 | (3) | 167353086 | 171560129 | 181491762 | 195138068 | 183182660 | 179745141 | 6 |
| Aroclor-1260-4 | (4) | 162125557 | 166999933 | 175289716 | 187582032 | 185522120 | 175503872 | 6 |
| Aroclor-1260-5 | (5) | 268686175 | 273623828 | 283035894 | 299271412 | 297351500 | 284393762 | 5 |
| Decachlorobiphenyl | | 2362750210 | 2427138920 | 2496479000 | 2603827440 | 2376686800 | 2453376474 | 4 |
| Tetrachloro-m-xylene | | 8902656430 | 9087809293 | 9285762860 | 9548006280 | 8745262400 | 9113899453 | 3 |
| Aroclor-1242-1 | (1) | 207947063 | 205572916 | 222208808 | 238956456 | 243522880 | 223641625 | 8 |
| Aroclor-1242-2 | (2) | 302439626 | 299949616 | 323550412 | 342804408 | 348858880 | 323520588 | 7 |
| Aroclor-1242-3 | (3) | 191912697 | 193178427 | 209638152 | 224306728 | 225847640 | 208976729 | 8 |
| Aroclor-1242-4 | (4) | 150447174 | 145338196 | 162797508 | 173135964 | 168308740 | 160005516 | 7 |
| Aroclor-1242-5 | (5) | 141009343 | 143408436 | 153689098 | 164623016 | 179679780 | 156481935 | 10 |
| Decachlorobiphenyl | | 2339420350 | 2427742867 | 2492700840 | 2551827400 | 2426410200 | 2447620331 | 3 |
| Tetrachloro-m-xylene | | 8860043620 | 8651743680 | 9146784160 | 9504075440 | 9174828800 | 9067495140 | 4 |
| Aroclor-1248-1 | (1) | 155913014 | 164800668 | 175191332 | 184609772 | 188867720 | 173876501 | 8 |
| Aroclor-1248-2 | (2) | 222845576 | 238202488 | 253637968 | 270074056 | 280366620 | 253025342 | 9 |
| Aroclor-1248-3 | (3) | 231904923 | 246233752 | 259706092 | 274388212 | 266197800 | 255686156 | 7 |
| Aroclor-1248-4 | (4) | 237210289 | 246633865 | 260533272 | 272872732 | 271860120 | 257822056 | 6 |
| Aroclor-1248-5 | (5) | 236273499 | 246591072 | 260733536 | 276314120 | 280304600 | 260043365 | 7 |
| Decachlorobiphenyl | | 2339780580 | 2371533013 | 2504089680 | 2566158680 | 2396701200 | 2435652631 | 4 |
| Tetrachloro-m-xylene | | 8719403610 | 9119992693 | 9358904180 | 9492784200 | 8995773400 | 9137371617 | 3 |
| Aroclor-1254-1 | (1) | 246822697 | 256579683 | 264992242 | 286189960 | 289157060 | 268748328 | 7 |
| Aroclor-1254-2 | (2) | 348120894 | 361641555 | 373031238 | 401237980 | 402995760 | 377405485 | 6 |
| Aroclor-1254-3 | (3) | 336293322 | 345653409 | 355909306 | 378498460 | 372630440 | 357796987 | 5 |
| Aroclor-1254-4 | (4) | 213138598 | 220171503 | 227187688 | 242530220 | 244046960 | 229414994 | 6 |
| Aroclor-1254-5 | (5) | 194609638 | 201069208 | 205869028 | 220139672 | 216546640 | 207646837 | 5 |
| Decachlorobiphenyl | | 2357746210 | 2401897693 | 2508594000 | 2601578200 | 2359367400 | 2445836701 | 4 |
| Tetrachloro-m-xylene | | 8883763230 | 9164627320 | 9184369060 | 9508828480 | 8791509400 | 9106619498 | 3 |
| Aroclor-1268-1 | (1) | 351862425 | 352413819 | 364622844 | 381760528 | 369380480 | 364008019 | 3 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1268-2 | (2) | 313096403 | 314491445 | 324862806 | 339637696 | 320299560 | 322477582 | 3 |
| Aroclor-1268-3 | (3) | 272236453 | 272760276 | 282620036 | 293538700 | 275661940 | 279363481 | 3 |
| Aroclor-1268-4 | (4) | 112236308 | 111261111 | 114714594 | 116428084 | 101458340 | 111219687 | 5 |
| Aroclor-1268-5 | (5) | 836674479 | 833098204 | 847063314 | 864357444 | 781067560 | 832452200 | 4 |
| Decachlorobiphenyl | | 4074190590 | 4136234160 | 4241958160 | 4399826360 | 4004084600 | 4171258774 | 4 |
| Tetrachloro-m-xylene | | 9139601460 | 8935957933 | 9311606620 | 9495189880 | 8951901000 | 9166851379 | 3 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

**Calibration Times:** 18:27 02:36

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

**LAB FILE ID:** **CF 1000 =** PO107184.D **CF 750 =** PO107185.D

**CF 500 =** PO107186.D **CF 250 =** PO107187.D **CF 050 =** PO107188.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 98519363 | 99934743 | 102532802 | 106601384 | 108740020 | 103265662 | 4 |
| Aroclor-1016-2 | (2) | 140533795 | 142751421 | 144315942 | 146877552 | 130360060 | 140967754 | 5 |
| Aroclor-1016-3 | (3) | 75819146 | 77111448 | 78799028 | 81783348 | 80215260 | 78745646 | 3 |
| Aroclor-1016-4 | (4) | 61532960 | 63413097 | 65607722 | 69564368 | 70423600 | 66108349 | 6 |
| Aroclor-1016-5 | (5) | 78878086 | 80970861 | 83522668 | 86940988 | 80356660 | 82133853 | 4 |
| Aroclor-1260-1 | (1) | 150450531 | 152030172 | 155131756 | 161942364 | 156218200 | 155154605 | 3 |
| Aroclor-1260-2 | (2) | 173752920 | 181526657 | 184104290 | 189736236 | 151457920 | 176115605 | 8 |
| Aroclor-1260-3 | (3) | 168454604 | 170292340 | 172108108 | 175991544 | 151894120 | 167748143 | 6 |
| Aroclor-1260-4 | (4) | 143637024 | 144895129 | 147115166 | 150514212 | 137242140 | 144680734 | 3 |
| Aroclor-1260-5 | (5) | 340738400 | 339782780 | 336796716 | 340391952 | 289493480 | 329440666 | 7 |
| Decachlorobiphenyl | | 2730622670 | 2745732653 | 2784792900 | 2852828640 | 2594005000 | 2741596373 | 3 |
| Tetrachloro-m-xylene | | 3312014480 | 3338472613 | 3349065240 | 3230716080 | 2862214000 | 3218496483 | 6 |
| Aroclor-1242-1 | (1) | 80390662 | 80447493 | 83937762 | 87266896 | 86674240 | 83743411 | 4 |
| Aroclor-1242-2 | (2) | 114487494 | 111266404 | 117741916 | 120667112 | 114031640 | 115638913 | 3 |
| Aroclor-1242-3 | (3) | 61817452 | 60461905 | 64396992 | 66865868 | 63624080 | 63433259 | 4 |
| Aroclor-1242-4 | (4) | 60582529 | 60636219 | 64384594 | 68045260 | 66598220 | 64049364 | 5 |
| Aroclor-1242-5 | (5) | 73763103 | 75675432 | 77215916 | 80736528 | 80226620 | 77523520 | 4 |
| Decachlorobiphenyl | | 2686985320 | 2764418280 | 2764436780 | 2798541920 | 2665265400 | 2735929540 | 2 |
| Tetrachloro-m-xylene | | 3315724680 | 3241948653 | 3341198040 | 3335574400 | 2920075400 | 3230904235 | 6 |
| Aroclor-1248-1 | (1) | 60218805 | 63038185 | 64879120 | 66667236 | 62402400 | 63441149 | 4 |
| Aroclor-1248-2 | (2) | 85173308 | 89108361 | 93061950 | 96541480 | 93540340 | 91485088 | 5 |
| Aroclor-1248-3 | (3) | 89257070 | 93226611 | 97377878 | 100891904 | 96212540 | 95393201 | 5 |
| Aroclor-1248-4 | (4) | 105934439 | 110533117 | 114760412 | 117772688 | 111691080 | 112138347 | 4 |
| Aroclor-1248-5 | (5) | 102828085 | 105359652 | 109801380 | 114217964 | 119140640 | 110269544 | 6 |
| Decachlorobiphenyl | | 2669365810 | 2682497173 | 2791873700 | 2836714480 | 2679938000 | 2732077833 | 3 |
| Tetrachloro-m-xylene | | 3278417600 | 3389239440 | 3425836480 | 3362184040 | 2965722400 | 3284279992 | 6 |
| Aroclor-1254-1 | (1) | 159855276 | 163854537 | 165548332 | 171717704 | 162964860 | 164788142 | 3 |
| Aroclor-1254-2 | (2) | 138468840 | 142269335 | 144546922 | 151325972 | 148203140 | 144962842 | 3 |
| Aroclor-1254-3 | (3) | 227061110 | 231385951 | 232213406 | 238575248 | 218867080 | 229620559 | 3 |
| Aroclor-1254-4 | (4) | 128242906 | 130249965 | 131325350 | 135207044 | 122091880 | 129423429 | 4 |
| Aroclor-1254-5 | (5) | 191904554 | 195153152 | 195378104 | 201188864 | 171636600 | 191052255 | 6 |
| Decachlorobiphenyl | | 2726927150 | 2738190720 | 2773447120 | 2836815760 | 2598739800 | 2734824110 | 3 |
| Tetrachloro-m-xylene | | 3347799560 | 3397335627 | 3354246660 | 3362236280 | 2930639600 | 3278451545 | 6 |
| Aroclor-1268-1 | (1) | 419191400 | 409991492 | 413863584 | 410849472 | 368955300 | 404570250 | 5 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1268-2 | (2) | 389672996 | 380096764 | 383518208 | 378699872 | 334345600 | 373266688 | 6 |
| Aroclor-1268-3 | (3) | 345284332 | 337828173 | 339535756 | 338755760 | 307004380 | 333681680 | 5 |
| Aroclor-1268-4 | (4) | 129107993 | 127445005 | 127285362 | 129260796 | 113749480 | 125369727 | 5 |
| Aroclor-1268-5 | (5) | 1049237500 | 1019311260 | 1017080130 | 996315476 | 856840280 | 987756929 | 8 |
| Decachlorobiphenyl | | 4873889790 | 4739451973 | 4823511780 | 4890043960 | 4430545400 | 4751488581 | 4 |
| Tetrachloro-m-xylene | | 3440286630 | 3329771373 | 3416104800 | 3331345720 | 2963806400 | 3296262985 | 6 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_O **Date(s) Analyzed:** 10/15/2024 10/16/2024

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

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Aroclor-1221 | 500 | 1 | 4.57 | 4.47 | 4.67 | 110010000 |
| | | 2 | 4.66 | 4.56 | 4.76 | 78836600 |
| | | 3 | 4.73 | 4.63 | 4.83 | 234100000 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 4.73 | 4.63 | 4.83 | 195844000 |
| | | 2 | 5.26 | 5.16 | 5.36 | 103025000 |
| | | 3 | 5.54 | 5.44 | 5.64 | 179001000 |
| | | 4 | 5.70 | 5.60 | 5.80 | 90165400 |
| | | 5 | 5.80 | 5.70 | 5.90 | 65903200 |
| Aroclor-1262 | 500 | 1 | 7.74 | 7.64 | 7.84 | 245548000 |
| | | 2 | 8.28 | 8.18 | 8.38 | 309420000 |
| | | 3 | 8.59 | 8.49 | 8.69 | 209196000 |
| | | 4 | 8.68 | 8.58 | 8.78 | 163066000 |
| | | 5 | 9.32 | 9.22 | 9.42 | 102764000 |

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_O **Date(s) Analyzed:** 10/15/2024 10/16/2024

**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 | 3.86 | 3.76 | 3.96 | 34895600 |
| | | 2 | 3.94 | 3.84 | 4.04 | 26624800 |
| | | 3 | 4.02 | 3.92 | 4.12 | 81218600 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 4.02 | 3.92 | 4.12 | 67327000 |
| | | 2 | 4.75 | 4.65 | 4.85 | 63205200 |
| | | 3 | 4.92 | 4.82 | 5.02 | 34475000 |
| | | 4 | 5.00 | 4.90 | 5.10 | 31466000 |
| | | 5 | 5.18 | 5.08 | 5.28 | 33083400 |
| Aroclor-1262 | 500 | 1 | 6.76 | 6.66 | 6.86 | 212876000 |
| | | 2 | 7.26 | 7.16 | 7.36 | 363332000 |
| | | 3 | 7.54 | 7.44 | 7.64 | 137384000 |
| | | 4 | 7.61 | 7.51 | 7.71 | 264574000 |
| | | 5 | 8.10 | 8.00 | 8.20 | 112833000 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/07/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

**Continuing Calib Time:** 09:00 **Initial Calibration Time(s):** 18:27 02:36

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.53 | 5.52 | 5.42 | 5.62 | -0.01 |
| Aroclor-1016-2 | (2) | 5.55 | 5.55 | 5.45 | 5.65 | 0.00 |
| Aroclor-1016-3 | (3) | 5.61 | 5.61 | 5.51 | 5.71 | 0.00 |
| Aroclor-1016-4 | (4) | 5.71 | 5.70 | 5.60 | 5.80 | -0.01 |
| Aroclor-1016-5 | (5) | 6.00 | 6.00 | 5.90 | 6.10 | 0.00 |
| Aroclor-1260-1 | (1) | 7.13 | 7.13 | 7.03 | 7.23 | 0.00 |
| Aroclor-1260-2 | (2) | 7.39 | 7.38 | 7.28 | 7.48 | -0.01 |
| Aroclor-1260-3 | (3) | 7.75 | 7.74 | 7.64 | 7.84 | -0.01 |
| Aroclor-1260-4 | (4) | 7.98 | 7.97 | 7.87 | 8.07 | -0.01 |
| Aroclor-1260-5 | (5) | 8.29 | 8.28 | 8.18 | 8.38 | -0.01 |
| Tetrachloro-m-xylene | | 4.37 | 4.37 | 4.27 | 4.47 | 0.00 |
| Decachlorobiphenyl | | 10.08 | 10.06 | 9.96 | 10.16 | -0.02 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/07/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

**Continuing Calib Time:** 09:00 **Initial Calibration Time(s):** 18:27 02:36

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.72 | 4.73 | 4.63 | 4.83 | 0.01 |
| Aroclor-1016-2 | (2) | 4.74 | 4.75 | 4.65 | 4.85 | 0.01 |
| Aroclor-1016-3 | (3) | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Aroclor-1016-4 | (4) | 4.96 | 4.96 | 4.86 | 5.06 | 0.00 |
| Aroclor-1016-5 | (5) | 5.17 | 5.18 | 5.08 | 5.28 | 0.01 |
| Aroclor-1260-1 | (1) | 6.20 | 6.21 | 6.11 | 6.31 | 0.01 |
| Aroclor-1260-2 | (2) | 6.39 | 6.39 | 6.29 | 6.49 | 0.00 |
| Aroclor-1260-3 | (3) | 6.55 | 6.55 | 6.45 | 6.65 | 0.00 |
| Aroclor-1260-4 | (4) | 7.02 | 7.02 | 6.92 | 7.12 | 0.00 |
| Aroclor-1260-5 | (5) | 7.26 | 7.26 | 7.16 | 7.36 | 0.00 |
| Tetrachloro-m-xylene | | 3.64 | 3.65 | 3.55 | 3.75 | 0.01 |
| Decachlorobiphenyl | | 8.64 | 8.64 | 8.54 | 8.74 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/07/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PO107769.D **Time Analyzed:** 09:00

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.525 | 5.423 | 5.623 | 533.240 | 500.000 | 6.6 |
| Aroclor-1016-2 | 5.547 | 5.445 | 5.645 | 524.920 | 500.000 | 5.0 |
| Aroclor-1016-3 | 5.610 | 5.507 | 5.707 | 512.270 | 500.000 | 2.5 |
| Aroclor-1016-4 | 5.707 | 5.604 | 5.804 | 536.660 | 500.000 | 7.3 |
| Aroclor-1016-5 | 6.003 | 5.899 | 6.099 | 549.900 | 500.000 | 10.0 |
| Aroclor-1260-1 | 7.133 | 7.026 | 7.226 | 569.760 | 500.000 | 14.0 |
| Aroclor-1260-2 | 7.389 | 7.282 | 7.482 | 591.260 | 500.000 | 18.3 |
| Aroclor-1260-3 | 7.752 | 7.643 | 7.843 | 572.350 | 500.000 | 14.5 |
| Aroclor-1260-4 | 7.978 | 7.868 | 8.068 | 583.920 | 500.000 | 16.8 |
| Aroclor-1260-5 | 8.293 | 8.181 | 8.381 | 596.880 | 500.000 | 19.4 |
| Decachlorobiphenyl | 10.079 | 9.958 | 10.158 | 51.570 | 50.000 | 3.1 |
| Tetrachloro-m-xylene | 4.373 | 4.274 | 4.474 | 54.530 | 50.000 | 9.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/07/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PO107769.D **Time Analyzed:** 09:00

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.723 | 4.626 | 4.826 | 561.030 | 500.000 | 12.2 |
| Aroclor-1016-2 | 4.742 | 4.645 | 4.845 | 577.570 | 500.000 | 15.5 |
| Aroclor-1016-3 | 4.919 | 4.821 | 5.021 | 552.200 | 500.000 | 10.4 |
| Aroclor-1016-4 | 4.960 | 4.862 | 5.062 | 485.110 | 500.000 | -3.0 |
| Aroclor-1016-5 | 5.173 | 5.076 | 5.276 | 550.490 | 500.000 | 10.1 |
| Aroclor-1260-1 | 6.203 | 6.107 | 6.307 | 559.730 | 500.000 | 11.9 |
| Aroclor-1260-2 | 6.391 | 6.294 | 6.494 | 577.550 | 500.000 | 15.5 |
| Aroclor-1260-3 | 6.545 | 6.448 | 6.648 | 543.970 | 500.000 | 8.8 |
| Aroclor-1260-4 | 7.016 | 6.918 | 7.118 | 540.980 | 500.000 | 8.2 |
| Aroclor-1260-5 | 7.257 | 7.159 | 7.359 | 574.450 | 500.000 | 14.9 |
| Decachlorobiphenyl | 8.638 | 8.539 | 8.739 | 56.920 | 50.000 | 13.8 |
| Tetrachloro-m-xylene | 3.643 | 3.545 | 3.745 | 57.040 | 50.000 | 14.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/07/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

**Continuing Calib Time:** 16:52 **Initial Calibration Time(s):** 18:27 02:36

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.52 | 5.52 | 5.42 | 5.62 | 0.00 |
| Aroclor-1016-2 | (2) | 5.55 | 5.55 | 5.45 | 5.65 | 0.00 |
| Aroclor-1016-3 | (3) | 5.61 | 5.61 | 5.51 | 5.71 | 0.00 |
| Aroclor-1016-4 | (4) | 5.71 | 5.70 | 5.60 | 5.80 | -0.01 |
| Aroclor-1016-5 | (5) | 6.00 | 6.00 | 5.90 | 6.10 | 0.00 |
| Aroclor-1260-1 | (1) | 7.13 | 7.13 | 7.03 | 7.23 | 0.00 |
| Aroclor-1260-2 | (2) | 7.39 | 7.38 | 7.28 | 7.48 | -0.01 |
| Aroclor-1260-3 | (3) | 7.75 | 7.74 | 7.64 | 7.84 | -0.01 |
| Aroclor-1260-4 | (4) | 7.98 | 7.97 | 7.87 | 8.07 | -0.01 |
| Aroclor-1260-5 | (5) | 8.29 | 8.28 | 8.18 | 8.38 | -0.01 |
| Tetrachloro-m-xylene | | 4.37 | 4.37 | 4.27 | 4.47 | 0.00 |
| Decachlorobiphenyl | | 10.08 | 10.06 | 9.96 | 10.16 | -0.02 |

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

## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/07/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

**Continuing Calib Time:** 16:52 **Initial Calibration Time(s):** 18:27 02:36

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

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.72 | 4.73 | 4.63 | 4.83 | 0.01 |
| Aroclor-1016-2 | (2) | 4.74 | 4.75 | 4.65 | 4.85 | 0.01 |
| Aroclor-1016-3 | (3) | 4.92 | 4.92 | 4.82 | 5.02 | 0.00 |
| Aroclor-1016-4 | (4) | 4.96 | 4.96 | 4.86 | 5.06 | 0.00 |
| Aroclor-1016-5 | (5) | 5.17 | 5.18 | 5.08 | 5.28 | 0.01 |
| Aroclor-1260-1 | (1) | 6.21 | 6.21 | 6.11 | 6.31 | 0.01 |
| Aroclor-1260-2 | (2) | 6.39 | 6.39 | 6.29 | 6.49 | 0.00 |
| Aroclor-1260-3 | (3) | 6.55 | 6.55 | 6.45 | 6.65 | 0.00 |
| Aroclor-1260-4 | (4) | 7.02 | 7.02 | 6.92 | 7.12 | 0.00 |
| Aroclor-1260-5 | (5) | 7.26 | 7.26 | 7.16 | 7.36 | 0.00 |
| Tetrachloro-m-xylene | | 3.64 | 3.65 | 3.55 | 3.75 | 0.01 |
| Decachlorobiphenyl | | 8.64 | 8.64 | 8.54 | 8.74 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/07/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PO107784.D **Time Analyzed:** 16:52

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.524 | 5.423 | 5.623 | 465.890 | 500.000 | -6.8 |
| Aroclor-1016-2 | 5.546 | 5.445 | 5.645 | 452.740 | 500.000 | -9.5 |
| Aroclor-1016-3 | 5.610 | 5.507 | 5.707 | 444.240 | 500.000 | -11.2 |
| Aroclor-1016-4 | 5.706 | 5.604 | 5.804 | 472.470 | 500.000 | -5.5 |
| Aroclor-1016-5 | 6.002 | 5.899 | 6.099 | 494.720 | 500.000 | -1.1 |
| Aroclor-1260-1 | 7.132 | 7.026 | 7.226 | 469.850 | 500.000 | -6.0 |
| Aroclor-1260-2 | 7.389 | 7.282 | 7.482 | 493.320 | 500.000 | -1.3 |
| Aroclor-1260-3 | 7.752 | 7.643 | 7.843 | 493.890 | 500.000 | -1.2 |
| Aroclor-1260-4 | 7.977 | 7.868 | 8.068 | 522.330 | 500.000 | 4.5 |
| Aroclor-1260-5 | 8.291 | 8.181 | 8.381 | 525.080 | 500.000 | 5.0 |
| Decachlorobiphenyl | 10.079 | 9.958 | 10.158 | 46.400 | 50.000 | -7.2 |
| Tetrachloro-m-xylene | 4.372 | 4.274 | 4.474 | 56.540 | 50.000 | 13.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/07/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PO107784.D **Time Analyzed:** 16:52

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.723 | 4.626 | 4.826 | 572.960 | 500.000 | 14.6 |
| Aroclor-1016-2 | 4.742 | 4.645 | 4.845 | 588.760 | 500.000 | 17.8 |
| Aroclor-1016-3 | 4.918 | 4.821 | 5.021 | 566.130 | 500.000 | 13.2 |
| Aroclor-1016-4 | 4.960 | 4.862 | 5.062 | 508.790 | 500.000 | 1.8 |
| Aroclor-1016-5 | 5.173 | 5.076 | 5.276 | 562.090 | 500.000 | 12.4 |
| Aroclor-1260-1 | 6.205 | 6.107 | 6.307 | 525.520 | 500.000 | 5.1 |
| Aroclor-1260-2 | 6.392 | 6.294 | 6.494 | 543.960 | 500.000 | 8.8 |
| Aroclor-1260-3 | 6.546 | 6.448 | 6.648 | 513.070 | 500.000 | 2.6 |
| Aroclor-1260-4 | 7.017 | 6.918 | 7.118 | 479.570 | 500.000 | -4.1 |
| Aroclor-1260-5 | 7.258 | 7.159 | 7.359 | 492.600 | 500.000 | -1.5 |
| Decachlorobiphenyl | 8.640 | 8.539 | 8.739 | 43.780 | 50.000 | -12.4 |
| Tetrachloro-m-xylene | 3.642 | 3.545 | 3.745 | 57.900 | 50.000 | 15.8 |

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Fax : 908 789 8922

# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_O

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/15/2024 10/15/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 10/15/2024 | 18:08 | PO107183.D | 10.06 | 4.37 |
| AR1660ICC1000 | AR1660ICC1000 | 10/15/2024 | 18:27 | PO107184.D | 10.06 | 4.37 |
| AR1660ICC750 | AR1660ICC750 | 10/15/2024 | 18:45 | PO107185.D | 10.06 | 4.37 |
| AR1660ICC500 | AR1660ICC500 | 10/15/2024 | 19:03 | PO107186.D | 10.06 | 4.37 |
| AR1660ICC250 | AR1660ICC250 | 10/15/2024 | 19:21 | PO107187.D | 10.06 | 4.37 |
| AR1660ICC050 | AR1660ICC050 | 10/15/2024 | 19:39 | PO107188.D | 10.06 | 4.37 |
| AR1221ICC500 | AR1221ICC500 | 10/15/2024 | 19:57 | PO107189.D | 10.06 | 4.37 |
| AR1232ICC500 | AR1232ICC500 | 10/15/2024 | 20:15 | PO107190.D | 10.06 | 4.37 |
| AR1242ICC1000 | AR1242ICC1000 | 10/15/2024 | 20:34 | PO107191.D | 10.06 | 4.37 |
| AR1242ICC750 | AR1242ICC750 | 10/15/2024 | 20:52 | PO107192.D | 10.06 | 4.37 |
| AR1242ICC500 | AR1242ICC500 | 10/15/2024 | 21:10 | PO107193.D | 10.06 | 4.37 |
| AR1242ICC250 | AR1242ICC250 | 10/15/2024 | 21:28 | PO107194.D | 10.06 | 4.37 |
| AR1242ICC050 | AR1242ICC050 | 10/15/2024 | 21:46 | PO107195.D | 10.06 | 4.37 |
| AR1248ICC1000 | AR1248ICC1000 | 10/15/2024 | 22:04 | PO107196.D | 10.06 | 4.37 |
| AR1248ICC750 | AR1248ICC750 | 10/15/2024 | 22:22 | PO107197.D | 10.06 | 4.37 |
| AR1248ICC500 | AR1248ICC500 | 10/15/2024 | 22:41 | PO107198.D | 10.06 | 4.37 |
| AR1248ICC250 | AR1248ICC250 | 10/15/2024 | 22:59 | PO107199.D | 10.06 | 4.37 |
| AR1248ICC050 | AR1248ICC050 | 10/15/2024 | 23:17 | PO107200.D | 10.06 | 4.37 |
| AR1254ICC1000 | AR1254ICC1000 | 10/15/2024 | 23:35 | PO107201.D | 10.06 | 4.37 |
| AR1254ICC750 | AR1254ICC750 | 10/15/2024 | 23:53 | PO107202.D | 10.06 | 4.37 |
| AR1254ICC500 | AR1254ICC500 | 10/16/2024 | 00:11 | PO107203.D | 10.06 | 4.37 |
| AR1254ICC250 | AR1254ICC250 | 10/16/2024 | 00:29 | PO107204.D | 10.06 | 4.37 |
| AR1254ICC050 | AR1254ICC050 | 10/16/2024 | 00:47 | PO107205.D | 10.06 | 4.37 |
| AR1262ICC500 | AR1262ICC500 | 10/16/2024 | 01:05 | PO107206.D | 10.06 | 4.37 |
| AR1268ICC1000 | AR1268ICC1000 | 10/16/2024 | 01:23 | PO107207.D | 10.06 | 4.37 |
| AR1268ICC750 | AR1268ICC750 | 10/16/2024 | 01:41 | PO107208.D | 10.06 | 4.37 |
| AR1268ICC500 | AR1268ICC500 | 10/16/2024 | 01:59 | PO107209.D | 10.06 | 4.37 |
| AR1268ICC250 | AR1268ICC250 | 10/16/2024 | 02:18 | PO107210.D | 10.06 | 4.37 |
| AR1268ICC050 | AR1268ICC050 | 10/16/2024 | 02:36 | PO107211.D | 10.06 | 4.37 |
| AR1660CCC500 | AR1660CCC500 | 11/07/2024 | 09:00 | PO107769.D | 10.08 | 4.37 |
| I.BLK | I.BLK | 11/07/2024 | 10:06 | PO107773.D | 10.08 | 4.37 |
| PB164748BL | PB164748BL | 11/07/2024 | 12:54 | PO107775.D | 10.08 | 4.38 |
| PB164748BS | PB164748BS | 11/07/2024 | 13:10 | PO107776.D | 10.08 | 4.37 |
| JC-701-COMP-01MS | P4720-01MS | 11/07/2024 | 13:59 | PO107779.D | 10.08 | 4.37 |
| JC-701-COMP-01MSD | P4720-01MSD | 11/07/2024 | 14:15 | PO107780.D | 10.08 | 4.37 |
| WC-1(0-6) | P4722-03 | 11/07/2024 | 14:31 | PO107781.D | 10.08 | 4.37 |
| WC-2(0-6) | P4722-08 | 11/07/2024 | 14:47 | PO107782.D | 10.08 | 4.37 |
| WC-3(0-6) | P4722-13 | 11/07/2024 | 15:04 | PO107783.D | 10.08 | 4.37 |
| AR1660CCC500 | AR1660CCC500 | 11/07/2024 | 16:52 | PO107784.D | 10.08 | 4.37 |
| I.BLK | I.BLK | 11/07/2024 | 17:56 | PO107788.D | 10.08 | 4.37 |

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Fax : 908 789 8922

# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_O

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/15/2024 10/15/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 10/15/2024 | 18:08 | PO107183.D | 8.64 | 3.64 |
| AR1660ICC1000 | AR1660ICC1000 | 10/15/2024 | 18:27 | PO107184.D | 8.64 | 3.64 |
| AR1660ICC750 | AR1660ICC750 | 10/15/2024 | 18:45 | PO107185.D | 8.64 | 3.64 |
| AR1660ICC500 | AR1660ICC500 | 10/15/2024 | 19:03 | PO107186.D | 8.64 | 3.65 |
| AR1660ICC250 | AR1660ICC250 | 10/15/2024 | 19:21 | PO107187.D | 8.64 | 3.64 |
| AR1660ICC050 | AR1660ICC050 | 10/15/2024 | 19:39 | PO107188.D | 8.64 | 3.64 |
| AR1221ICC500 | AR1221ICC500 | 10/15/2024 | 19:57 | PO107189.D | 8.64 | 3.64 |
| AR1232ICC500 | AR1232ICC500 | 10/15/2024 | 20:15 | PO107190.D | 8.64 | 3.64 |
| AR1242ICC1000 | AR1242ICC1000 | 10/15/2024 | 20:34 | PO107191.D | 8.64 | 3.64 |
| AR1242ICC750 | AR1242ICC750 | 10/15/2024 | 20:52 | PO107192.D | 8.64 | 3.64 |
| AR1242ICC500 | AR1242ICC500 | 10/15/2024 | 21:10 | PO107193.D | 8.64 | 3.64 |
| AR1242ICC250 | AR1242ICC250 | 10/15/2024 | 21:28 | PO107194.D | 8.64 | 3.65 |
| AR1242ICC050 | AR1242ICC050 | 10/15/2024 | 21:46 | PO107195.D | 8.64 | 3.64 |
| AR1248ICC1000 | AR1248ICC1000 | 10/15/2024 | 22:04 | PO107196.D | 8.64 | 3.64 |
| AR1248ICC750 | AR1248ICC750 | 10/15/2024 | 22:22 | PO107197.D | 8.64 | 3.64 |
| AR1248ICC500 | AR1248ICC500 | 10/15/2024 | 22:41 | PO107198.D | 8.64 | 3.64 |
| AR1248ICC250 | AR1248ICC250 | 10/15/2024 | 22:59 | PO107199.D | 8.64 | 3.64 |
| AR1248ICC050 | AR1248ICC050 | 10/15/2024 | 23:17 | PO107200.D | 8.64 | 3.64 |
| AR1254ICC1000 | AR1254ICC1000 | 10/15/2024 | 23:35 | PO107201.D | 8.64 | 3.65 |
| AR1254ICC750 | AR1254ICC750 | 10/15/2024 | 23:53 | PO107202.D | 8.64 | 3.64 |
| AR1254ICC500 | AR1254ICC500 | 10/16/2024 | 00:11 | PO107203.D | 8.64 | 3.64 |
| AR1254ICC250 | AR1254ICC250 | 10/16/2024 | 00:29 | PO107204.D | 8.64 | 3.64 |
| AR1254ICC050 | AR1254ICC050 | 10/16/2024 | 00:47 | PO107205.D | 8.64 | 3.65 |
| AR1262ICC500 | AR1262ICC500 | 10/16/2024 | 01:05 | PO107206.D | 8.64 | 3.64 |
| AR1268ICC1000 | AR1268ICC1000 | 10/16/2024 | 01:23 | PO107207.D | 8.64 | 3.65 |
| AR1268ICC750 | AR1268ICC750 | 10/16/2024 | 01:41 | PO107208.D | 8.64 | 3.64 |
| AR1268ICC500 | AR1268ICC500 | 10/16/2024 | 01:59 | PO107209.D | 8.64 | 3.65 |
| AR1268ICC250 | AR1268ICC250 | 10/16/2024 | 02:18 | PO107210.D | 8.64 | 3.64 |
| AR1268ICC050 | AR1268ICC050 | 10/16/2024 | 02:36 | PO107211.D | 8.64 | 3.65 |
| AR1660CCC500 | AR1660CCC500 | 11/07/2024 | 09:00 | PO107769.D | 8.64 | 3.64 |
| I.BLK | I.BLK | 11/07/2024 | 10:06 | PO107773.D | 8.64 | 3.64 |
| PB164748BL | PB164748BL | 11/07/2024 | 12:54 | PO107775.D | 8.64 | 3.64 |
| PB164748BS | PB164748BS | 11/07/2024 | 13:10 | PO107776.D | 8.64 | 3.64 |
| JC-701-COMP-01MS | P4720-01MS | 11/07/2024 | 13:59 | PO107779.D | 8.64 | 3.64 |
| JC-701-COMP-01MSD | P4720-01MSD | 11/07/2024 | 14:15 | PO107780.D | 8.64 | 3.64 |
| WC-1(0-6) | P4722-03 | 11/07/2024 | 14:31 | PO107781.D | 8.64 | 3.64 |
| WC-2(0-6) | P4722-08 | 11/07/2024 | 14:47 | PO107782.D | 8.64 | 3.64 |
| WC-3(0-6) | P4722-13 | 11/07/2024 | 15:04 | PO107783.D | 8.64 | 3.64 |
| AR1660CCC500 | AR1660CCC500 | 11/07/2024 | 16:52 | PO107784.D | 8.64 | 3.64 |
| I.BLK | I.BLK | 11/07/2024 | 17:56 | PO107788.D | 8.64 | 3.64 |

# QC SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164748BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164748BL | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | SW3541B | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO107775.D | 1 | 11/07/24 08:40 | 11/07/24 12:54 | PB164748 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 3.40 | U | 3.40 | 17.0 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.40 | U | 6.40 | 17.0 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.40 | U | 3.40 | 17.0 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.40 | U | 3.40 | 17.0 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 7.90 | U | 7.90 | 17.0 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.70 | U | 2.70 | 17.0 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.60 | U | 4.60 | 17.0 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.40 | U | 3.40 | 17.0 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 2.90 | U | 2.90 | 17.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.0 | | 32 - 144 | 100% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 21.9 | | 32 - 175 | 110% | 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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 10/15/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 10/15/24 |
| Client Sample ID: | PIBLK-PO107183.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PO107183.D | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO107183.D | 1 | | 10/15/24 | po101524 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.37 | U | 0.37 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 22.1 | | 60 - 140 | 110% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 22.8 | | 60 - 140 | 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
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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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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/07/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/07/24 |
| Client Sample ID: | PIBLK-PO107773.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PO107773.D | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO107773.D | 1 | | 11/07/24 | PO110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.37 | U | 0.37 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.8 | | 60 - 140 | 104% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 21.9 | | 60 - 140 | 109% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/07/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/07/24 |
| Client Sample ID: | PIBLK-PO107788.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PO107788.D | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO107788.D | 1 | | 11/07/24 | PO110724 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.37 | U | 0.37 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.4 | | 60 - 140 | 102% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 18.6 | | 60 - 140 | 93% | SPK: 20 |

Comments:

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() = Laboratory InHouse Limit

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164748BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164748BS | Matrix: | SOIL |
| Analytical Method: | SW8082A | % 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 |
|---|---|---|---|---|
| PO107776.D | 1 | 11/07/24 08:40 | 11/07/24 13:10 | PB164748 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 163 | | 3.40 | 17.0 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 6.40 | U | 6.40 | 17.0 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.40 | U | 3.40 | 17.0 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.40 | U | 3.40 | 17.0 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 7.90 | U | 7.90 | 17.0 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 2.70 | U | 2.70 | 17.0 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 4.60 | U | 4.60 | 17.0 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.40 | U | 3.40 | 17.0 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 167 | | 2.90 | 17.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.3 | | 32 - 144 | 107% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 23.2 | | 32 - 175 | 116% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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P = Indicates >25% difference for detected concentrations between the two GC columns
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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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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | JC-701-COMP-01MS | SDG No.: | P4722 |
| Lab Sample ID: | P4720-01MS | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 90.6 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 |
|---|---|---|---|---|
| PO107779.D | 1 | 11/07/24 08:40 | 11/07/24 13:59 | PB164748 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 203 | | 3.70 | 18.7 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 7.10 | U | 7.10 | 18.7 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.70 | U | 3.70 | 18.7 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.70 | U | 3.70 | 18.7 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.70 | U | 8.70 | 18.7 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.00 | U | 3.00 | 18.7 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.00 | U | 5.00 | 18.7 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.80 | U | 3.80 | 18.7 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 232 | | 3.20 | 18.7 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 23.1 | | 32 - 144 | 116% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 29.5 | | 32 - 175 | 148% | SPK: 20 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | JC-701-COMP-01MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4720-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8082A | % Solid: | 90.6 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 |
|---|---|---|---|---|
| PO107780.D | 1 | 11/07/24 08:40 | 11/07/24 14:15 | PB164748 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 204 | | 3.70 | 18.7 | ug/kg |
| 11104-28-2 | Aroclor-1221 | 7.10 | U | 7.10 | 18.7 | ug/kg |
| 11141-16-5 | Aroclor-1232 | 3.70 | U | 3.70 | 18.7 | ug/kg |
| 53469-21-9 | Aroclor-1242 | 3.70 | U | 3.70 | 18.7 | ug/kg |
| 12672-29-6 | Aroclor-1248 | 8.70 | U | 8.70 | 18.7 | ug/kg |
| 11097-69-1 | Aroclor-1254 | 3.00 | U | 3.00 | 18.7 | ug/kg |
| 37324-23-5 | Aroclor-1262 | 5.00 | U | 5.00 | 18.7 | ug/kg |
| 11100-14-4 | Aroclor-1268 | 3.80 | U | 3.80 | 18.7 | ug/kg |
| 11096-82-5 | Aroclor-1260 | 233 | | 3.20 | 18.7 | ug/kg |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 22.8 | | 32 - 144 | 114% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 29.8 | | 32 - 175 | 149% | SPK: 20 |

Comments:

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/08/24 | |
| | | | Herbicide | 8151A | | 11/07/24 | 11/12/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-03DL** | **WC-1(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-05** | **WC-1(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/07/24 | |
| | | | Herbicide | 8151A | | 11/07/24 | 11/08/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-08DL** | **WC-2(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-10** | **WC-2(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/08/24 | |
| | | | Herbicide | 8151A | | 11/07/24 | 11/12/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |

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# LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-13DL** | **WC-3(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-15** | **WC-3(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |

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# Hit Summary Sheet
## SW-846

**SDG No.:** P4722 **Order ID:** P4722

**Client:** Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | SOIL |
| Analytical Method: | SW8151A | % Solid: | 93.8 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 |
|---|---|---|---|---|
| PS028438.D | 1 | 11/07/24 10:33 | 11/12/24 05:23 | PB164754 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 9.20 | U | 9.20 | 71.4 | ug/Kg |
| 120-36-5 | DICHLORPROP | 10.2 | U | 10.2 | 71.4 | ug/Kg |
| 94-75-7 | 2,4-D | 12.9 | U | 12.9 | 71.4 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.0 | U | 10.0 | 71.4 | ug/Kg |
| 93-76-5 | 2,4,5-T | 10.8 | U | 10.8 | 71.4 | ug/Kg |
| 94-82-6 | 2,4-DB | 19.5 | U | 19.5 | 71.4 | ug/Kg |
| 88-85-7 | DINOSEB | 13.2 | U | 13.2 | 71.4 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 258 | | 10 - 141 | 52% | SPK: 500 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | SOIL |
| Analytical Method: | SW8151A | % Solid: | 90.1 Decanted: |
| Sample Wt/Vol: | 30.1 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 |
|---|---|---|---|---|
| PS028370.D | 1 | 11/07/24 10:33 | 11/08/24 20:58 | PB164754 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 9.60 | U | 9.60 | 74.1 | ug/Kg |
| 120-36-5 | DICHLORPROP | 10.6 | U | 10.6 | 74.1 | ug/Kg |
| 94-75-7 | 2,4-D | 13.4 | U | 13.4 | 74.1 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.4 | U | 10.4 | 74.1 | ug/Kg |
| 93-76-5 | 2,4,5-T | 11.2 | U | 11.2 | 74.1 | ug/Kg |
| 94-82-6 | 2,4-DB | 20.2 | U | 20.2 | 74.1 | ug/Kg |
| 88-85-7 | DINOSEB | 13.7 | U | 13.7 | 74.1 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 108 | | 10 - 141 | 22% | SPK: 500 |

Comments:

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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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | SOIL |
| Analytical Method: | SW8151A | % Solid: | 86.6 Decanted: |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS028439.D | 1 | 11/07/24 10:33 | 11/12/24 05:47 | PB164754 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 10.0 | U | 10.0 | 77.2 | ug/Kg |
| 120-36-5 | DICHLORPROP | 11.0 | U | 11.0 | 77.2 | ug/Kg |
| 94-75-7 | 2,4-D | 13.9 | U | 13.9 | 77.2 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 10.8 | U | 10.8 | 77.2 | ug/Kg |
| 93-76-5 | 2,4,5-T | 11.6 | U | 11.6 | 77.2 | ug/Kg |
| 94-82-6 | 2,4-DB | 21.1 | U | 21.1 | 77.2 | ug/Kg |
| 88-85-7 | DINOSEB | 14.3 | U | 14.3 | 77.2 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 323 | | 10 - 141 | 65% | 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.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8151A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PS028355.D | PIBLK-PS028355.D | 2,4-DCAA | 1 | 500 | 501 | 100 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 503 | 101 | | 39 | 175 |
| I.BLK-PS028362.D | PIBLK-PS028362.D | 2,4-DCAA | 1 | 500 | 491 | 98 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 493 | 99 | | 39 | 175 |
| PB164754BL | PB164754BL | 2,4-DCAA | 1 | 500 | 494 | 99 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 469 | 94 | | 10 | 141 |
| PB164754BS | PB164754BS | 2,4-DCAA | 1 | 500 | 534 | 107 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 533 | 107 | | 10 | 141 |
| P4722-08 | WC-2(0-6) | 2,4-DCAA | 1 | 500 | 108 | 22 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 88.5 | 18 | | 10 | 141 |
| P4739-01MS | TP-14MS | 2,4-DCAA | 1 | 500 | 237 | 47 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 199 | 40 | | 10 | 141 |
| P4739-01MSD | TP-14MSD | 2,4-DCAA | 1 | 500 | 232 | 46 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 196 | 39 | | 10 | 141 |
| I.BLK-PS028378.D | PIBLK-PS028378.D | 2,4-DCAA | 1 | 500 | 494 | 99 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 487 | 97 | | 39 | 175 |
| I.BLK-PS028429.D | PIBLK-PS028429.D | 2,4-DCAA | 1 | 500 | 508 | 102 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 461 | 92 | | 39 | 175 |
| P4722-03 | WC-1(0-6) | 2,4-DCAA | 1 | 500 | 258 | 52 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 217 | 43 | | 10 | 141 |
| P4722-13 | WC-3(0-6) | 2,4-DCAA | 1 | 500 | 323 | 65 | | 10 | 141 |
| | | 2,4-DCAA | 2 | 500 | 270 | 54 | | 10 | 141 |
| I.BLK-PS028441.D | PIBLK-PS028441.D | 2,4-DCAA | 1 | 500 | 509 | 102 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 455 | 91 | | 39 | 175 |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8151A **DataFile :** PS028373.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **TP-14MS** | | | | | | | | | | | |
| P4739-01MS | DICAMBA | 187.7 | 0 | 68.5 | ug/Kg | 36 | | | | 10 | 112 | |
| | DICHLORPROP | 187.7 | 0 | 40.4 | ug/Kg | 22 | | | | 10 | 113 | |
| | 2,4-D | 187.7 | 0 | 72.7 | ug/Kg | 39 | | | | 10 | 144 | |
| | 2,4,5-TP(Silvex) | 187.7 | 0 | 27.4 | ug/Kg | 15 | | | | 10 | 114 | |
| | 2,4,5-T | 187.7 | 0 | 37.0 | ug/Kg | 20 | | | | 10 | 115 | |
| | 2,4-DB | 187.7 | 0 | 27.6 | ug/Kg | 15 | | | | 10 | 140 | |
| | Dinoseb | 187.7 | 0 | 14.2 | ug/Kg | 8 | * | | | 10 | 118 | |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8151A **DataFile :** PS028374.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **TP-14MSD** | | | | | | | | | | | |
| P4739-01MSD | DICAMBA | 187.8 | 0 | 67.7 | ug/Kg | 36 | | 0 | | 10 | 112 | 20 |
| | DICHLORPROP | 187.8 | 0 | 39.6 | ug/Kg | 21 | | 5 | | 10 | 113 | 20 |
| | 2,4-D | 187.8 | 0 | 71.0 | ug/Kg | 38 | | 3 | | 10 | 144 | 20 |
| | 2,4,5-TP(Silvex) | 187.8 | 0 | 26.6 | ug/Kg | 14 | | 7 | | 10 | 114 | 20 |
| | 2,4,5-T | 187.8 | 0 | 36.3 | ug/Kg | 19 | | 5 | | 10 | 115 | 20 |
| | 2,4-DB | 187.8 | 0 | 26.9 | ug/Kg | 14 | | 7 | | 10 | 140 | 20 |
| | Dinoseb | 187.8 | 0 | 15.0 | ug/Kg | 8 | * | 0 | | 10 | 118 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8151A **Datafile :** PS028368.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164754BS | DICAMBA | 166.6 | 170 | ug/Kg | 102 | | | | 72 | 129 | |
| | DICHLORPROP | 166.6 | 170 | ug/Kg | 102 | | | | 77 | 135 | |
| | 2,4-D | 166.6 | 169 | ug/Kg | 101 | | | | 65 | 144 | |
| | 2,4,5-TP(Silvex) | 166.6 | 173 | ug/Kg | 104 | | | | 74 | 146 | |
| | 2,4,5-T | 166.6 | 173 | ug/Kg | 104 | | | | 77 | 134 | |
| | 2,4-DB | 166.6 | 168 | ug/Kg | 101 | | | | 72 | 122 | |
| | Dinoseb | 166.6 | 167 | ug/Kg | 100 | | | | 74 | 132 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164754BL

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab Sample ID: PB164754BL Lab File ID: PS028367.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 11/07/2024

Date Analyzed (1): 11/08/2024 Date Analyzed (2): 11/08/2024

Time Analyzed (1): 19:46 Time Analyzed (2): 19:46

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 |
|---|---|---|---|---|
| PB164754BS | PB164754BS | PS028368.D | 11/08/2024 | 11/08/2024 |
| WC-2(0-6) | P4722-08 | PS028370.D | 11/08/2024 | 11/08/2024 |
| TP-14MS | P4739-01MS | PS028373.D | 11/08/2024 | 11/08/2024 |
| TP-14MSD | P4739-01MSD | PS028374.D | 11/08/2024 | 11/08/2024 |
| WC-1(0-6) | P4722-03 | PS028438.D | 11/12/2024 | 11/12/2024 |
| WC-3(0-6) | P4722-13 | PS028439.D | 11/12/2024 | 11/12/2024 |

COMMENTS:

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164754BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164754BL | Matrix: | SOIL |
| Analytical Method: | SW8151A | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | Herbicide |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 8151A | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PS028367.D | 1 | 11/07/24 10:33 | 11/08/24 19:46 | PB164754 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 8.70 | U | 8.70 | 66.9 | ug/Kg |
| 120-36-5 | DICHLORPROP | 9.50 | U | 9.50 | 66.9 | ug/Kg |
| 94-75-7 | 2,4-D | 12.1 | U | 12.1 | 66.9 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 9.40 | U | 9.40 | 66.9 | ug/Kg |
| 93-76-5 | 2,4,5-T | 10.1 | U | 10.1 | 66.9 | ug/Kg |
| 94-82-6 | 2,4-DB | 18.3 | U | 18.3 | 66.9 | ug/Kg |
| 88-85-7 | DINOSEB | 12.4 | U | 12.4 | 66.9 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 494 | | 10 - 141 | 99% | SPK: 500 |

Comments:

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/08/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/08/24 |
| Client Sample ID: | PIBLK-PS028355.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PS028355.D | Matrix: | WATER |
| Analytical Method: | SW8151A | % 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 |
|---|---|---|---|---|
| PS028355.D | 1 | | 11/08/24 | PS110924 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.42 | U | 0.42 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.43 | U | 0.43 | 2.00 | ug/L |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| 93-76-5 | 2,4,5-T | 0.50 | U | 0.50 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.57 | U | 0.57 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.55 | U | 0.55 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 503 | | 39 - 175 | 101% | SPK: 500 |

Comments:

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/08/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/08/24 |
| Client Sample ID: | PIBLK-PS028362.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PS028362.D | Matrix: | WATER |
| Analytical Method: | SW8151A | % 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 |
|---|---|---|---|---|
| PS028362.D | 1 | | 11/08/24 | PS110924 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.42 | U | 0.42 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.43 | U | 0.43 | 2.00 | ug/L |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| 93-76-5 | 2,4,5-T | 0.50 | U | 0.50 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.57 | U | 0.57 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.55 | U | 0.55 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 493 | | 39 - 175 | 99% | SPK: 500 |

Comments:

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/09/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/09/24 |
| Client Sample ID: | PIBLK-PS028378.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PS028378.D | Matrix: | WATER |
| Analytical Method: | SW8151A | % 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 |
|---|---|---|---|---|
| PS028378.D | 1 | | 11/09/24 | PS110924 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.42 | U | 0.42 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.43 | U | 0.43 | 2.00 | ug/L |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| 93-76-5 | 2,4,5-T | 0.50 | U | 0.50 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.57 | U | 0.57 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.55 | U | 0.55 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 494 | | 39 - 175 | 99% | SPK: 500 |

Comments:

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/12/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/12/24 |
| Client Sample ID: | PIBLK-PS028429.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PS028429.D | Matrix: | WATER |
| Analytical Method: | SW8151A | % 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 |
|---|---|---|---|---|
| PS028429.D | 1 | | 11/12/24 | ps111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.42 | U | 0.42 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.43 | U | 0.43 | 2.00 | ug/L |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| 93-76-5 | 2,4,5-T | 0.50 | U | 0.50 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.57 | U | 0.57 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.55 | U | 0.55 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 508 | | 39 - 175 | 102% | SPK: 500 |

Comments:

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/12/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/12/24 |
| Client Sample ID: | PIBLK-PS028441.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PS028441.D | Matrix: | WATER |
| Analytical Method: | SW8151A | % 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 |
|---|---|---|---|---|
| PS028441.D | 1 | | 11/12/24 | PS111124 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 0.42 | U | 0.42 | 2.00 | ug/L |
| 120-36-5 | DICHLORPROP | 0.43 | U | 0.43 | 2.00 | ug/L |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| 93-76-5 | 2,4,5-T | 0.50 | U | 0.50 | 2.00 | ug/L |
| 94-82-6 | 2,4-DB | 0.57 | U | 0.57 | 2.00 | ug/L |
| 88-85-7 | DINOSEB | 0.55 | U | 0.55 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 509 | | 39 - 175 | 102% | SPK: 500 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164754BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164754BS | Matrix: | SOIL |
| Analytical Method: | SW8151A | % 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 |
|---|---|---|---|---|
| PS028368.D | 1 | 11/07/24 10:33 | 11/08/24 20:10 | PB164754 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 170 | | 8.70 | 67.0 | ug/Kg |
| 120-36-5 | DICHLORPROP | 170 | | 9.50 | 67.0 | ug/Kg |
| 94-75-7 | 2,4-D | 169 | | 12.1 | 67.0 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 173 | | 9.40 | 67.0 | ug/Kg |
| 93-76-5 | 2,4,5-T | 173 | | 10.1 | 67.0 | ug/Kg |
| 94-82-6 | 2,4-DB | 168 | | 18.3 | 67.0 | ug/Kg |
| 88-85-7 | DINOSEB | 167 | | 12.4 | 67.0 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 534 | | 10 - 141 | 107% | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/06/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/06/24 |
| Client Sample ID: | TP-14MS | SDG No.: | P4722 |
| Lab Sample ID: | P4739-01MS | Matrix: | SOIL |
| Analytical Method: | SW8151A | % Solid: | 88.7 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 |
|---|---|---|---|---|
| PS028373.D | 1 | 11/07/24 10:33 | 11/08/24 22:10 | PB164754 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 68.5 | J | 9.80 | 75.5 | ug/Kg |
| 120-36-5 | DICHLORPROP | 40.4 | J | 10.7 | 75.5 | ug/Kg |
| 94-75-7 | 2,4-D | 72.7 | J | 13.6 | 75.5 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 27.4 | J | 10.6 | 75.5 | ug/Kg |
| 93-76-5 | 2,4,5-T | 37.0 | J | 11.4 | 75.5 | ug/Kg |
| 94-82-6 | 2,4-DB | 27.6 | J | 20.6 | 75.5 | ug/Kg |
| 88-85-7 | DINOSEB | 14.2 | J | 14.0 | 75.5 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 237 | | 10 - 141 | 47% | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/06/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/06/24 |
| Client Sample ID: | TP-14MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4739-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8151A | % Solid: | 88.7 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 |
|---|---|---|---|---|
| PS028374.D | 1 | 11/07/24 10:33 | 11/08/24 22:34 | PB164754 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 1918-00-9 | DICAMBA | 67.7 | J | 9.80 | 75.5 | ug/Kg |
| 120-36-5 | DICHLORPROP | 39.6 | J | 10.7 | 75.5 | ug/Kg |
| 94-75-7 | 2,4-D | 71.0 | J | 13.6 | 75.5 | ug/Kg |
| 93-72-1 | 2,4,5-TP (Silvex) | 26.6 | J | 10.6 | 75.5 | ug/Kg |
| 93-76-5 | 2,4,5-T | 36.3 | J | 11.4 | 75.5 | ug/Kg |
| 94-82-6 | 2,4-DB | 26.9 | J | 20.6 | 75.5 | ug/Kg |
| 88-85-7 | DINOSEB | 15.0 | J | 14.0 | 75.5 | ug/Kg |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 232 | | 10 - 141 | 46% | SPK: 500 |

Comments:

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

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

# CALIBRATION SUMMARY

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

**Calibration Times:** 15:13 16:58

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GC Column: RTX-CLP ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS028356.D RT 500 = PS028357.D

RT 750 = PS028358.D RT 1000 = PS028359.D RT 1500 = PS028360.D

| COMPOUND | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-T | 9.55 | 9.56 | 9.55 | 9.55 | 9.55 | 9.55 | 9.45 | 9.65 |
| 2,4,5-TP(Silvex) | 9.26 | 9.26 | 9.26 | 9.26 | 9.26 | 9.26 | 9.16 | 9.36 |
| 2,4-D | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.28 | 8.48 |
| 2,4-DB | 10.13 | 10.13 | 10.13 | 10.13 | 10.13 | 10.13 | 10.03 | 10.23 |
| 2,4-DCAA | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.15 | 7.35 |
| DICAMBA | 7.44 | 7.44 | 7.44 | 7.44 | 7.44 | 7.44 | 7.34 | 7.54 |
| DICHLORPROP | 8.15 | 8.15 | 8.15 | 8.15 | 8.15 | 8.15 | 8.05 | 8.25 |
| Dinoseb | 11.35 | 11.35 | 11.35 | 11.35 | 11.35 | 11.35 | 11.25 | 11.45 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

**Calibration Times:** 15:13 16:58

GC Column: RTX-CLP2 ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS028356.D RT 500 = PS028357.D

RT 750 = PS028358.D RT 1000 = PS028359.D RT 1500 = PS028360.D

| COMPOUND | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-T | 10.33 | 10.33 | 10.33 | 10.33 | 10.33 | 10.33 | 10.23 | 10.43 |
| 2,4,5-TP(Silvex) | 9.91 | 9.91 | 9.91 | 9.91 | 9.91 | 9.91 | 9.81 | 10.01 |
| 2,4-D | 9.01 | 9.00 | 9.01 | 9.01 | 9.01 | 9.00 | 8.90 | 9.10 |
| 2,4-DB | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 10.80 | 11.00 |
| 2,4-DCAA | 7.76 | 7.75 | 7.76 | 7.76 | 7.76 | 7.75 | 7.65 | 7.85 |
| DICAMBA | 7.96 | 7.96 | 7.96 | 7.96 | 7.96 | 7.96 | 7.86 | 8.06 |
| DICHLORPROP | 8.67 | 8.67 | 8.67 | 8.67 | 8.67 | 8.67 | 8.57 | 8.77 |
| Dinoseb | 11.28 | 11.28 | 11.28 | 11.28 | 11.28 | 11.28 | 11.18 | 11.38 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

**Calibration Times:** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 (mm)

**LAB FILE ID:** CF 200 = PS028356.D CF 500 = PS028357.D

CF 750 = PS028358.D CF 1000 = PS028359.D CF 1500 = PS028360.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-T | 21529100000 | 19437000000 | 19525400000 | 18705500000 | 17708000000 | 19381000000 | 7 |
| 2,4,5-TP(Silvex) | 21008200000 | 18982300000 | 19068100000 | 18267500000 | 17318700000 | 18929000000 | 7 |
| 2,4-D | 3997770000 | 3571450000 | 3468690000 | 3334460000 | 3198650000 | 3514210000 | 9 |
| 2,4-DB | 3352010000 | 3027230000 | 3093110000 | 3022410000 | 2959650000 | 3090880000 | 5 |
| 2,4-DCAA | 3196830000 | 2740430000 | 2735520000 | 2619650000 | 2511350000 | 2760750000 | 9 |
| DICAMBA | 12975400000 | 11905100000 | 12166500000 | 11780900000 | 11375900000 | 12040700000 | 5 |
| DICHLORPROP | 3557350000 | 3056940000 | 3079000000 | 2957460000 | 2847450000 | 3099640000 | 9 |
| Dinoseb | 17552800000 | 16349100000 | 16308600000 | 15784700000 | 15071600000 | 16213400000 | 6 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

**Calibration Times:** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 200 =** PS028356.D **CF 500 =** PS028357.D

**CF 750 =** PS028358.D **CF 1000 =** PS028359.D **CF 1500 =** PS028360.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-T | 10782600000 | 10407300000 | 10530200000 | 10245600000 | 9914510000 | 10376000000 | 3 |
| 2,4,5-TP(Silvex) | 10970300000 | 10612300000 | 10768700000 | 10478800000 | 10130800000 | 10592200000 | 3 |
| 2,4-D | 2051780000 | 1901200000 | 1935300000 | 1900220000 | 1880580000 | 1933820000 | 4 |
| 2,4-DB | 1351580000 | 1287180000 | 1335670000 | 1323760000 | 1328210000 | 1325280000 | 2 |
| 2,4-DCAA | 1694540000 | 1575990000 | 1595150000 | 1561040000 | 1540400000 | 1593420000 | 4 |
| DICAMBA | 7032650000 | 7044480000 | 7350350000 | 7249840000 | 7170240000 | 7169510000 | 2 |
| DICHLORPROP | 1864120000 | 1759800000 | 1788540000 | 1754780000 | 1739090000 | 1781270000 | 3 |
| Dinoseb | 7376340000 | 7195700000 | 7257020000 | 7126590000 | 6931080000 | 7177340000 | 2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/08/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 18:10 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.44 | 7.44 | 7.34 | 7.54 | 0.00 |
| 2,4-DCAA | 7.25 | 7.25 | 7.15 | 7.35 | 0.00 |
| DICHLORPROP | 8.15 | 8.15 | 8.05 | 8.25 | 0.00 |
| 2,4-D | 8.38 | 8.38 | 8.28 | 8.48 | 0.00 |
| 2,4,5-TP(Silvex) | 9.26 | 9.26 | 9.16 | 9.36 | 0.00 |
| 2,4,5-T | 9.55 | 9.55 | 9.45 | 9.65 | 0.00 |
| 2,4-DB | 10.13 | 10.13 | 10.03 | 10.23 | 0.00 |
| Dinoseb | 11.34 | 11.35 | 11.25 | 11.45 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/08/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 18:10 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.96 | 7.96 | 7.86 | 8.06 | 0.01 |
| 2,4-DCAA | 7.75 | 7.76 | 7.66 | 7.86 | 0.01 |
| DICHLORPROP | 8.67 | 8.67 | 8.57 | 8.77 | 0.00 |
| 2,4-D | 9.00 | 9.01 | 8.91 | 9.11 | 0.01 |
| 2,4,5-TP(Silvex) | 9.91 | 9.91 | 9.81 | 10.01 | 0.00 |
| 2,4,5-T | 10.33 | 10.33 | 10.23 | 10.43 | 0.00 |
| 2,4-DB | 10.90 | 10.90 | 10.80 | 11.00 | 0.00 |
| Dinoseb | 11.28 | 11.28 | 11.18 | 11.38 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/08/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028363.D **Time Analyzed:** 18:10

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 9.552 | 9.452 | 9.652 | 708.290 | 712.500 | -0.6 |
| 2,4,5-TP(Silvex) | 9.260 | 9.160 | 9.360 | 708.980 | 712.500 | -0.5 |
| 2,4-D | 8.378 | 8.279 | 8.479 | 688.020 | 705.000 | -2.4 |
| 2,4-DB | 10.129 | 10.029 | 10.229 | 704.320 | 712.500 | -1.1 |
| 2,4-DCAA | 7.249 | 7.150 | 7.350 | 734.280 | 750.000 | -2.1 |
| DICAMBA | 7.438 | 7.338 | 7.538 | 704.230 | 705.000 | -0.1 |
| DICHLORPROP | 8.148 | 8.048 | 8.248 | 693.130 | 705.000 | -1.7 |
| Dinoseb | 11.344 | 11.245 | 11.445 | 685.490 | 705.000 | -2.8 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/08/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028363.D **Time Analyzed:** 18:10

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 10.332 | 10.233 | 10.433 | 707.880 | 712.500 | -0.6 |
| 2,4,5-TP(Silvex) | 9.911 | 9.811 | 10.011 | 707.720 | 712.500 | -0.7 |
| 2,4-D | 9.004 | 8.905 | 9.105 | 693.210 | 705.000 | -1.7 |
| 2,4-DB | 10.900 | 10.800 | 11.000 | 705.100 | 712.500 | -1.0 |
| 2,4-DCAA | 7.754 | 7.655 | 7.855 | 740.460 | 750.000 | -1.3 |
| DICAMBA | 7.955 | 7.856 | 8.056 | 710.900 | 705.000 | 0.8 |
| DICHLORPROP | 8.672 | 8.573 | 8.773 | 696.240 | 705.000 | -1.2 |
| Dinoseb | 11.279 | 11.180 | 11.380 | 682.790 | 705.000 | -3.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/09/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 00:34 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.44 | 7.44 | 7.34 | 7.54 | 0.00 |
| 2,4-DCAA | 7.25 | 7.25 | 7.15 | 7.35 | 0.00 |
| DICHLORPROP | 8.15 | 8.15 | 8.05 | 8.25 | 0.00 |
| 2,4-D | 8.38 | 8.38 | 8.28 | 8.48 | 0.00 |
| 2,4,5-TP(Silvex) | 9.26 | 9.26 | 9.16 | 9.36 | 0.00 |
| 2,4,5-T | 9.55 | 9.55 | 9.45 | 9.65 | 0.00 |
| 2,4-DB | 10.13 | 10.13 | 10.03 | 10.23 | 0.00 |
| Dinoseb | 11.34 | 11.35 | 11.25 | 11.45 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/09/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 00:34 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.95 | 7.96 | 7.86 | 8.06 | 0.01 |
| 2,4-DCAA | 7.75 | 7.76 | 7.66 | 7.86 | 0.01 |
| DICHLORPROP | 8.67 | 8.67 | 8.57 | 8.77 | 0.00 |
| 2,4-D | 9.00 | 9.01 | 8.91 | 9.11 | 0.01 |
| 2,4,5-TP(Silvex) | 9.91 | 9.91 | 9.81 | 10.01 | 0.00 |
| 2,4,5-T | 10.33 | 10.33 | 10.23 | 10.43 | 0.00 |
| 2,4-DB | 10.90 | 10.90 | 10.80 | 11.00 | 0.00 |
| Dinoseb | 11.28 | 11.28 | 11.18 | 11.38 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/09/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028379.D **Time Analyzed:** 00:34

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 9.550 | 9.452 | 9.652 | 703.660 | 712.500 | -1.2 |
| 2,4,5-TP(Silvex) | 9.257 | 9.160 | 9.360 | 705.350 | 712.500 | -1.0 |
| 2,4-D | 8.376 | 8.279 | 8.479 | 683.840 | 705.000 | -3.0 |
| 2,4-DB | 10.126 | 10.029 | 10.229 | 689.080 | 712.500 | -3.3 |
| 2,4-DCAA | 7.247 | 7.150 | 7.350 | 729.100 | 750.000 | -2.8 |
| DICAMBA | 7.436 | 7.338 | 7.538 | 700.700 | 705.000 | -0.6 |
| DICHLORPROP | 8.145 | 8.048 | 8.248 | 689.680 | 705.000 | -2.2 |
| Dinoseb | 11.341 | 11.245 | 11.445 | 684.820 | 705.000 | -2.9 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/09/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028379.D **Time Analyzed:** 00:34

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 10.329 | 10.233 | 10.433 | 699.380 | 712.500 | -1.8 |
| 2,4,5-TP(Silvex) | 9.909 | 9.811 | 10.011 | 696.990 | 712.500 | -2.2 |
| 2,4-D | 9.002 | 8.905 | 9.105 | 674.630 | 705.000 | -4.3 |
| 2,4-DB | 10.897 | 10.800 | 11.000 | 688.400 | 712.500 | -3.4 |
| 2,4-DCAA | 7.753 | 7.655 | 7.855 | 729.560 | 750.000 | -2.7 |
| DICAMBA | 7.954 | 7.856 | 8.056 | 698.730 | 705.000 | -0.9 |
| DICHLORPROP | 8.671 | 8.573 | 8.773 | 682.450 | 705.000 | -3.2 |
| Dinoseb | 11.277 | 11.180 | 11.380 | 675.370 | 705.000 | -4.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 02:11 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.43 | 7.44 | 7.34 | 7.54 | 0.01 |
| 2,4-DCAA | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| DICHLORPROP | 8.14 | 8.15 | 8.05 | 8.25 | 0.01 |
| 2,4-D | 8.37 | 8.38 | 8.28 | 8.48 | 0.01 |
| 2,4,5-TP(Silvex) | 9.25 | 9.26 | 9.16 | 9.36 | 0.01 |
| 2,4,5-T | 9.55 | 9.55 | 9.45 | 9.65 | 0.00 |
| 2,4-DB | 10.12 | 10.13 | 10.03 | 10.23 | 0.01 |
| Dinoseb | 11.34 | 11.35 | 11.25 | 11.45 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 02:11 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.95 | 7.96 | 7.86 | 8.06 | 0.01 |
| 2,4-DCAA | 7.75 | 7.76 | 7.66 | 7.86 | 0.01 |
| DICHLORPROP | 8.67 | 8.67 | 8.57 | 8.77 | 0.00 |
| 2,4-D | 9.00 | 9.01 | 8.91 | 9.11 | 0.01 |
| 2,4,5-TP(Silvex) | 9.91 | 9.91 | 9.81 | 10.01 | 0.00 |
| 2,4,5-T | 10.33 | 10.33 | 10.23 | 10.43 | 0.00 |
| 2,4-DB | 10.89 | 10.90 | 10.80 | 11.00 | 0.01 |
| Dinoseb | 11.27 | 11.28 | 11.18 | 11.38 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028430.D **Time Analyzed:** 02:11

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 9.545 | 9.452 | 9.652 | 724.840 | 712.500 | 1.7 |
| 2,4,5-TP(Silvex) | 9.252 | 9.160 | 9.360 | 724.670 | 712.500 | 1.7 |
| 2,4-D | 8.373 | 8.279 | 8.479 | 704.430 | 705.000 | -0.1 |
| 2,4-DB | 10.121 | 10.029 | 10.229 | 680.020 | 712.500 | -4.6 |
| 2,4-DCAA | 7.244 | 7.150 | 7.350 | 745.790 | 750.000 | -0.6 |
| DICAMBA | 7.432 | 7.338 | 7.538 | 720.640 | 705.000 | 2.2 |
| DICHLORPROP | 8.141 | 8.048 | 8.248 | 709.240 | 705.000 | 0.6 |
| Dinoseb | 11.335 | 11.245 | 11.445 | 713.990 | 705.000 | 1.3 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028430.D **Time Analyzed:** 02:11

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 10.326 | 10.233 | 10.433 | 666.200 | 712.500 | -6.5 |
| 2,4,5-TP(Silvex) | 9.906 | 9.811 | 10.011 | 665.210 | 712.500 | -6.6 |
| 2,4-D | 8.999 | 8.905 | 9.105 | 614.680 | 705.000 | -12.8 |
| 2,4-DB | 10.894 | 10.800 | 11.000 | 644.510 | 712.500 | -9.5 |
| 2,4-DCAA | 7.750 | 7.655 | 7.855 | 684.690 | 750.000 | -8.7 |
| DICAMBA | 7.951 | 7.856 | 8.056 | 662.040 | 705.000 | -6.1 |
| DICHLORPROP | 8.668 | 8.573 | 8.773 | 643.140 | 705.000 | -8.8 |
| Dinoseb | 11.274 | 11.180 | 11.380 | 655.310 | 705.000 | -7.0 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 06:59 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.43 | 7.44 | 7.34 | 7.54 | 0.01 |
| 2,4-DCAA | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| DICHLORPROP | 8.14 | 8.15 | 8.05 | 8.25 | 0.01 |
| 2,4-D | 8.37 | 8.38 | 8.28 | 8.48 | 0.01 |
| 2,4,5-TP(Silvex) | 9.25 | 9.26 | 9.16 | 9.36 | 0.01 |
| 2,4,5-T | 9.54 | 9.55 | 9.45 | 9.65 | 0.01 |
| 2,4-DB | 10.12 | 10.13 | 10.03 | 10.23 | 0.01 |
| Dinoseb | 11.33 | 11.35 | 11.25 | 11.45 | 0.02 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 06:59 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| DICAMBA | 7.95 | 7.96 | 7.86 | 8.06 | 0.01 |
| 2,4-DCAA | 7.75 | 7.76 | 7.66 | 7.86 | 0.01 |
| DICHLORPROP | 8.67 | 8.67 | 8.57 | 8.77 | 0.01 |
| 2,4-D | 9.00 | 9.01 | 8.91 | 9.11 | 0.02 |
| 2,4,5-TP(Silvex) | 9.90 | 9.91 | 9.81 | 10.01 | 0.01 |
| 2,4,5-T | 10.32 | 10.33 | 10.23 | 10.43 | 0.01 |
| 2,4-DB | 10.89 | 10.90 | 10.80 | 11.00 | 0.01 |
| Dinoseb | 11.27 | 11.28 | 11.18 | 11.38 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL04 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028442.D **Time Analyzed:** 06:59

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 9.542 | 9.452 | 9.652 | 726.580 | 712.500 | 2.0 |
| 2,4,5-TP(Silvex) | 9.249 | 9.160 | 9.360 | 728.750 | 712.500 | 2.3 |
| 2,4-D | 8.370 | 8.279 | 8.479 | 705.610 | 705.000 | 0.1 |
| 2,4-DB | 10.118 | 10.029 | 10.229 | 661.620 | 712.500 | -7.1 |
| 2,4-DCAA | 7.242 | 7.150 | 7.350 | 746.620 | 750.000 | -0.5 |
| DICAMBA | 7.430 | 7.338 | 7.538 | 722.500 | 705.000 | 2.5 |
| DICHLORPROP | 8.139 | 8.048 | 8.248 | 709.750 | 705.000 | 0.7 |
| Dinoseb | 11.332 | 11.245 | 11.445 | 716.220 | 705.000 | 1.6 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL04 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028442.D **Time Analyzed:** 06:59

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-T | 10.323 | 10.233 | 10.433 | 659.950 | 712.500 | -7.4 |
| 2,4,5-TP(Silvex) | 9.902 | 9.811 | 10.011 | 654.880 | 712.500 | -8.1 |
| 2,4-D | 8.995 | 8.905 | 9.105 | 653.430 | 705.000 | -7.3 |
| 2,4-DB | 10.890 | 10.800 | 11.000 | 646.400 | 712.500 | -9.3 |
| 2,4-DCAA | 7.748 | 7.655 | 7.855 | 679.110 | 750.000 | -9.5 |
| DICAMBA | 7.949 | 7.856 | 8.056 | 655.240 | 705.000 | -7.1 |
| DICHLORPROP | 8.665 | 8.573 | 8.773 | 631.600 | 705.000 | -10.4 |
| Dinoseb | 11.270 | 11.180 | 11.380 | 647.110 | 705.000 | -8.2 |

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# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_S

**GC Column:** RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/08/2024 11/08/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCAA RT # | RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 11/08/2024 | 14:25 | PS028355.D | 7.25 | 0.00 |
| HSTDICC200 | HSTDICC200 | 11/08/2024 | 15:13 | PS028356.D | 7.25 | 0.00 |
| HSTDICC500 | HSTDICC500 | 11/08/2024 | 15:46 | PS028357.D | 7.25 | 0.00 |
| HSTDICC750 | HSTDICC750 | 11/08/2024 | 16:10 | PS028358.D | 7.25 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 11/08/2024 | 16:34 | PS028359.D | 7.25 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 11/08/2024 | 16:58 | PS028360.D | 7.25 | 0.00 |
| I.BLK | I.BLK | 11/08/2024 | 17:46 | PS028362.D | 7.25 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/08/2024 | 18:10 | PS028363.D | 7.25 | 0.00 |
| PB164754BL | PB164754BL | 11/08/2024 | 19:46 | PS028367.D | 7.25 | 0.00 |
| PB164754BS | PB164754BS | 11/08/2024 | 20:10 | PS028368.D | 7.25 | 0.00 |
| WC-2(0-6) | P4722-08 | 11/08/2024 | 20:58 | PS028370.D | 7.25 | 0.00 |
| TP-14MS | P4739-01MS | 11/08/2024 | 22:10 | PS028373.D | 7.25 | 0.00 |
| TP-14MSD | P4739-01MSD | 11/08/2024 | 22:34 | PS028374.D | 7.25 | 0.00 |
| I.BLK | I.BLK | 11/09/2024 | 00:10 | PS028378.D | 7.25 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/09/2024 | 00:34 | PS028379.D | 7.25 | 0.00 |
| I.BLK | I.BLK | 11/12/2024 | 01:47 | PS028429.D | 7.24 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/12/2024 | 02:11 | PS028430.D | 7.24 | 0.00 |
| WC-1(0-6) | P4722-03 | 11/12/2024 | 05:23 | PS028438.D | 7.24 | 0.00 |
| WC-3(0-6) | P4722-13 | 11/12/2024 | 05:47 | PS028439.D | 7.24 | 0.00 |
| I.BLK | I.BLK | 11/12/2024 | 06:35 | PS028441.D | 7.24 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/12/2024 | 06:59 | PS028442.D | 7.24 | 0.00 |

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# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_S

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/08/2024 11/08/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCAA RT # | RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 11/08/2024 | 14:25 | PS028355.D | 7.76 | 0.00 |
| HSTDICC200 | HSTDICC200 | 11/08/2024 | 15:13 | PS028356.D | 7.76 | 0.00 |
| HSTDICC500 | HSTDICC500 | 11/08/2024 | 15:46 | PS028357.D | 7.75 | 0.00 |
| HSTDICC750 | HSTDICC750 | 11/08/2024 | 16:10 | PS028358.D | 7.76 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 11/08/2024 | 16:34 | PS028359.D | 7.76 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 11/08/2024 | 16:58 | PS028360.D | 7.76 | 0.00 |
| I.BLK | I.BLK | 11/08/2024 | 17:46 | PS028362.D | 7.76 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/08/2024 | 18:10 | PS028363.D | 7.75 | 0.00 |
| PB164754BL | PB164754BL | 11/08/2024 | 19:46 | PS028367.D | 7.75 | 0.00 |
| PB164754BS | PB164754BS | 11/08/2024 | 20:10 | PS028368.D | 7.75 | 0.00 |
| WC-2(0-6) | P4722-08 | 11/08/2024 | 20:58 | PS028370.D | 7.75 | 0.00 |
| TP-14MS | P4739-01MS | 11/08/2024 | 22:10 | PS028373.D | 7.75 | 0.00 |
| TP-14MSD | P4739-01MSD | 11/08/2024 | 22:34 | PS028374.D | 7.75 | 0.00 |
| I.BLK | I.BLK | 11/09/2024 | 00:10 | PS028378.D | 7.75 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/09/2024 | 00:34 | PS028379.D | 7.75 | 0.00 |
| I.BLK | I.BLK | 11/12/2024 | 01:47 | PS028429.D | 7.75 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/12/2024 | 02:11 | PS028430.D | 7.75 | 0.00 |
| WC-1(0-6) | P4722-03 | 11/12/2024 | 05:23 | PS028438.D | 7.75 | 0.00 |
| WC-3(0-6) | P4722-13 | 11/12/2024 | 05:47 | PS028439.D | 7.75 | 0.00 |
| I.BLK | I.BLK | 11/12/2024 | 06:35 | PS028441.D | 7.75 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/12/2024 | 06:59 | PS028442.D | 7.75 | 0.00 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB164754BS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** PB164754BS **Date(s) Analyzed:** 11/08/2024 11/08/2024

**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 | 8.15 | 8.10 | 8.20 | 170 | 1.8 |
| | 2 | 8.67 | 8.62 | 8.72 | 167 | |
| 2,4-D | 1 | 8.38 | 8.33 | 8.43 | 169 | 1.2 |
| | 2 | 9.00 | 8.95 | 9.05 | 167 | |
| 2,4,5-TP(Silvex) | 1 | 9.26 | 9.21 | 9.31 | 173 | 1.7 |
| | 2 | 9.91 | 9.86 | 9.96 | 170 | |
| 2,4,5-T | 1 | 9.55 | 9.50 | 9.60 | 173 | 1.7 |
| | 2 | 10.33 | 10.28 | 10.38 | 170 | |
| 2,4-DB | 1 | 10.13 | 10.08 | 10.18 | 168 | 1.2 |
| | 2 | 10.90 | 10.85 | 10.95 | 166 | |
| Dinoseb | 1 | 11.34 | 11.29 | 11.39 | 167 | 1.2 |
| | 2 | 11.28 | 11.23 | 11.33 | 165 | |
| DICAMBA | 1 | 7.44 | 7.39 | 7.49 | 170 | 1.2 |
| | 2 | 7.96 | 7.91 | 8.01 | 168 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**TP-14MS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4739-01MS **Date(s) Analyzed:** 11/08/2024 11/08/2024

**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 | 8.15 | 8.10 | 8.20 | 40.4 | 8.2 |
| | 2 | 8.67 | 8.62 | 8.72 | 37.2 | |
| 2,4-D | 1 | 8.38 | 8.33 | 8.43 | 72.7 | 5.2 |
| | 2 | 9.00 | 8.95 | 9.05 | 69.0 | |
| 2,4,5-TP(Silvex) | 1 | 9.26 | 9.21 | 9.31 | 25.6 | 6.8 |
| | 2 | 9.91 | 9.86 | 9.96 | 27.4 | |
| 2,4,5-T | 1 | 9.55 | 9.50 | 9.60 | 37.0 | 1.4 |
| | 2 | 10.33 | 10.28 | 10.38 | 36.5 | |
| 2,4-DB | 1 | 10.13 | 10.08 | 10.18 | 27.6 | 21.2 |
| | 2 | 10.90 | 10.85 | 10.95 | 22.3 | |
| DICAMBA | 1 | 7.44 | 7.39 | 7.49 | 68.5 | 5.2 |
| | 2 | 7.95 | 7.90 | 8.00 | 65.0 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**TP-14MSD**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4739-01MSD **Date(s) Analyzed:** 11/08/2024 11/08/2024

**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 | 8.15 | 8.10 | 8.20 | 39.6 | 8.7 |
| | 2 | 8.67 | 8.62 | 8.72 | 36.3 | |
| 2,4-D | 1 | 8.38 | 8.33 | 8.43 | 71.0 | 4.2 |
| | 2 | 9.00 | 8.95 | 9.05 | 68.1 | |
| 2,4,5-TP(Silvex) | 1 | 9.26 | 9.21 | 9.31 | 25.0 | 6.2 |
| | 2 | 9.91 | 9.86 | 9.96 | 26.6 | |
| 2,4,5-T | 1 | 9.55 | 9.50 | 9.60 | 36.3 | 1.1 |
| | 2 | 10.33 | 10.28 | 10.38 | 35.9 | |
| 2,4-DB | 1 | 10.13 | 10.08 | 10.18 | 26.9 | 18.3 |
| | 2 | 10.90 | 10.85 | 10.95 | 22.4 | |
| DICAMBA | 1 | 7.44 | 7.39 | 7.49 | 67.7 | 5.3 |
| | 2 | 7.96 | 7.91 | 8.01 | 64.2 | |

Alliance TECHNICAL GROUP

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/08/24 | |
| | | | Herbicide | 8151A | | 11/07/24 | 11/12/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-03DL** | **WC-1(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-04** | **WC-1(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP Herbicide | 8151A | | 11/10/24 | 11/12/24 | |
| | | | TCLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-05** | **WC-1(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/07/24 | |
| | | | Herbicide | 8151A | | 11/07/24 | 11/08/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-08DL** | **WC-2(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-09** | **WC-2(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP Herbicide | 8151A | | 11/10/24 | 11/12/24 | |
| | | | TCLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |

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# LAB CHRONICLE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **P4722-10** | **WC-2(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/08/24 | |
| | | | Herbicide | 8151A | | 11/07/24 | 11/12/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-13DL** | **WC-3(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-14** | **WC-3(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP Herbicide | 8151A | | 11/10/24 | 11/12/24 | |
| | | | TCLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-15** | **WC-3(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |

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# Hit Summary Sheet
## SW-846

**SDG No.:** P4722 **Order ID:** P4722

**Client:** Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-04 | Matrix: | TCLP |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP 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 |
|---|---|---|---|---|
| PS028459.D | 1 | 11/10/24 09:45 | 11/12/24 16:51 | PB164850 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 4.90 | U | 4.90 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 4.50 | U | 4.50 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 402 | | 39 - 175 | 80% | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-09 | Matrix: | TCLP |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP 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 |
|---|---|---|---|---|
| PS028460.D | 1 | 11/10/24 09:45 | 11/12/24 17:16 | PB164850 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 4.90 | U | 4.90 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 4.50 | U | 4.50 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 400 | | 39 - 175 | 80% | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-14 | Matrix: | TCLP |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP 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 |
|---|---|---|---|---|
| PS028461.D | 1 | 11/10/24 09:45 | 11/12/24 17:41 | PB164850 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 4.90 | U | 4.90 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 4.50 | U | 4.50 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 444 | | 39 - 175 | 89% | 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: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/10/24 |
| Client Sample ID: | PB164694TB | SDG No.: | P4722 |
| Lab Sample ID: | PB164694TB | Matrix: | TCLP |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP 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 |
|---|---|---|---|---|
| PS028454.D | 1 | 11/10/24 09:45 | 11/12/24 14:49 | PB164850 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 4.90 | U | 4.90 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 4.50 | U | 4.50 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 351 | | 39 - 175 | 70% | 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.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8151A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PS028355.D | PIBLK-PS028355.D | 2,4-DCAA | 1 | 500 | 501 | 100 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 503 | 101 | | 39 | 175 |
| I.BLK-PS028450.D | PIBLK-PS028450.D | 2,4-DCAA | 1 | 500 | 503 | 101 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 446 | 89 | | 39 | 175 |
| PB164850BL | PB164850BL | 2,4-DCAA | 1 | 500 | 484 | 97 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 408 | 82 | | 39 | 175 |
| PB164850BS | PB164850BS | 2,4-DCAA | 1 | 500 | 534 | 107 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 468 | 94 | | 39 | 175 |
| PB164694TB | PB164694TB | 2,4-DCAA | 1 | 500 | 351 | 70 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 283 | 57 | | 39 | 175 |
| P4718-03MS | WB-307-SB02MS | 2,4-DCAA | 1 | 500 | 363 | 73 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 282 | 56 | | 39 | 175 |
| P4718-03MSD | WB-307-SB02MSD | 2,4-DCAA | 1 | 500 | 366 | 73 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 282 | 56 | | 39 | 175 |
| P4722-04 | WC-1(0-6) | 2,4-DCAA | 1 | 500 | 402 | 80 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 296 | 59 | | 39 | 175 |
| P4722-09 | WC-2(0-6) | 2,4-DCAA | 1 | 500 | 400 | 80 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 287 | 57 | | 39 | 175 |
| P4722-14 | WC-3(0-6) | 2,4-DCAA | 1 | 500 | 444 | 89 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 299 | 60 | | 39 | 175 |
| I.BLK-PS028462.D | PIBLK-PS028462.D | 2,4-DCAA | 1 | 500 | 497 | 99 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 444 | 89 | | 39 | 175 |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8151A **DataFile :** PS028457.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **WB-307-SB02MS** | | | | | | | | | | | |
| P4718-03MS | 2,4-D | 50 | 0 | 47.6 | ug/L | 95 | | | | 65 | 135 | |
| | 2,4,5-TP(Silvex) | 50 | 0 | 56.9 | ug/L | 114 | | | | 62 | 139 | |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8151A **DataFile :** PS028458.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **WB-307-SB02MSD** | | | | | | | | | | | |
| P4718-03MSD | 2,4-D | 50 | 0 | 47.8 | ug/L | 96 | | 1 | | 65 | 135 | 20 |
| | 2,4,5-TP(Silvex) | 50 | 0 | 58.6 | ug/L | 117 | | 3 | | 62 | 139 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8151A **Datafile :** PS028453.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164850BS | 2,4-D | 5 | 5.00 | ug/L | 100 | | | | 83 | 130 | |
| | 2,4,5-TP(Silvex) | 5 | 5.20 | ug/L | 104 | | | | 78 | 127 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164850BL

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab Sample ID: PB164850BL Lab File ID: PS028452.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 11/10/2024

Date Analyzed (1): 11/12/2024 Date Analyzed (2): 11/12/2024

Time Analyzed (1): 13:53 Time Analyzed (2): 13:53

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 |
|---|---|---|---|---|
| PB164850BS | PB164850BS | PS028453.D | 11/12/2024 | 11/12/2024 |
| PB164694TB | PB164694TB | PS028454.D | 11/12/2024 | 11/12/2024 |
| WB-307-SB02MS | P4718-03MS | PS028457.D | 11/12/2024 | 11/12/2024 |
| WB-307-SB02MSD | P4718-03MSD | PS028458.D | 11/12/2024 | 11/12/2024 |
| WC-1(0-6) | P4722-04 | PS028459.D | 11/12/2024 | 11/12/2024 |
| WC-2(0-6) | P4722-09 | PS028460.D | 11/12/2024 | 11/12/2024 |
| WC-3(0-6) | P4722-14 | PS028461.D | 11/12/2024 | 11/12/2024 |

COMMENTS:

# QC SAMPLE DATA

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

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164850BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164850BL | Matrix: | TCLP |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP 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 |
|---|---|---|---|---|
| PS028452.D | 1 | 11/10/24 09:45 | 11/12/24 13:53 | PB164850 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 484 | | 39 - 175 | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/08/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/08/24 |
| Client Sample ID: | PIBLK-PS028355.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PS028355.D | Matrix: | TCLP |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP 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 |
|---|---|---|---|---|
| PS028355.D | 1 | | 11/08/24 | PS110924 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 503 | | 39 - 175 | 101% | SPK: 500 |

Comments:

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/12/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/12/24 |
| Client Sample ID: | PIBLK-PS028450.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PS028450.D | Matrix: | TCLP |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP 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 |
|---|---|---|---|---|
| PS028450.D | 1 | | 11/12/24 | PS111224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 503 | | 39 - 175 | 101% | SPK: 500 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/12/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/12/24 |
| Client Sample ID: | PIBLK-PS028462.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PS028462.D | Matrix: | TCLP |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP 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 |
|---|---|---|---|---|
| PS028462.D | 1 | | 11/12/24 | PS111224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 497 | | 39 - 175 | 99% | SPK: 500 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164850BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164850BS | Matrix: | TCLP |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP 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 |
|---|---|---|---|---|
| PS028453.D | 1 | 11/10/24 09:45 | 11/12/24 14:17 | PB164850 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 5.00 | | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 5.20 | | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 534 | | 39 - 175 | 107% | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/04/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WB-307-SB02MS | SDG No.: | P4722 |
| Lab Sample ID: | P4718-03MS | Matrix: | TCLP |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP 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 |
|---|---|---|---|---|
| PS028457.D | 1 | 11/10/24 09:45 | 11/12/24 16:03 | PB164850 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 47.6 | | 4.90 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 56.9 | | 4.50 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 363 | | 39 - 175 | 73% | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/04/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WB-307-SB02MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4718-03MSD | Matrix: | TCLP |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 100 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | TCLP 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 |
|---|---|---|---|---|
| PS028458.D | 1 | 11/10/24 09:45 | 11/12/24 16:27 | PB164850 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 47.8 | | 4.90 | 20.0 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 58.6 | | 4.50 | 20.0 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 366 | | 39 - 175 | 73% | SPK: 500 |

Comments:

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

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

# CALIBRATION SUMMARY

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

**Calibration Times:** 15:13 16:58

GC Column: RTX-CLP ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS028356.D RT 500 = PS028357.D

RT 750 = PS028358.D RT 1000 = PS028359.D RT 1500 = PS028360.D

| COMPOUND | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.26 | 9.26 | 9.26 | 9.26 | 9.26 | 9.26 | 9.16 | 9.36 |
| 2,4-D | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.28 | 8.48 |
| 2,4-DCAA | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.15 | 7.35 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

**Calibration Times:** 15:13 16:58

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GC Column: RTX-CLP2 ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS028356.D RT 500 = PS028357.D

RT 750 = PS028358.D RT 1000 = PS028359.D RT 1500 = PS028360.D

| COMPOUND | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.91 | 9.91 | 9.91 | 9.91 | 9.91 | 9.91 | 9.81 | 10.01 |
| 2,4-D | 9.01 | 9.00 | 9.01 | 9.01 | 9.01 | 9.00 | 8.90 | 9.10 |
| 2,4-DCAA | 7.76 | 7.75 | 7.76 | 7.76 | 7.76 | 7.75 | 7.65 | 7.85 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

**Calibration Times:** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 200 =** PS028356.D **CF 500 =** PS028357.D

**CF 750 =** PS028358.D **CF 1000 =** PS028359.D **CF 1500 =** PS028360.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 21008200000 | 18982300000 | 19068100000 | 18267500000 | 17318700000 | 18929000000 | 7 |
| 2,4-D | 3997770000 | 3571450000 | 3468690000 | 3334460000 | 3198650000 | 3514210000 | 9 |
| 2,4-DCAA | 3196830000 | 2740430000 | 2735520000 | 2619650000 | 2511350000 | 2760750000 | 9 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

**Calibration Times:** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 200 =** PS028356.D **CF 500 =** PS028357.D

**CF 750 =** PS028358.D **CF 1000 =** PS028359.D **CF 1500 =** PS028360.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 10970300000 | 10612300000 | 10768700000 | 10478800000 | 10130800000 | 10592200000 | 3 |
| 2,4-D | 2051780000 | 1901200000 | 1935300000 | 1900220000 | 1880580000 | 1933820000 | 4 |
| 2,4-DCAA | 1694540000 | 1575990000 | 1595150000 | 1561040000 | 1540400000 | 1593420000 | 4 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 13:25 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| 2,4-D | 8.37 | 8.38 | 8.28 | 8.48 | 0.01 |
| 2,4,5-TP(Silvex) | 9.25 | 9.26 | 9.16 | 9.36 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 13:25 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.75 | 7.76 | 7.66 | 7.86 | 0.01 |
| 2,4-D | 9.00 | 9.01 | 8.91 | 9.11 | 0.02 |
| 2,4,5-TP(Silvex) | 9.90 | 9.91 | 9.81 | 10.01 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028451.D **Time Analyzed:** 13:25

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.254 | 9.160 | 9.360 | 735.550 | 712.500 | 3.2 |
| 2,4-D | 8.374 | 8.279 | 8.479 | 712.300 | 705.000 | 1.0 |
| 2,4-DCAA | 7.244 | 7.150 | 7.350 | 740.980 | 750.000 | -1.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028451.D **Time Analyzed:** 13:25

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.902 | 9.811 | 10.011 | 664.220 | 712.500 | -6.8 |
| 2,4-D | 8.995 | 8.905 | 9.105 | 639.620 | 705.000 | -9.3 |
| 2,4-DCAA | 7.747 | 7.655 | 7.855 | 681.430 | 750.000 | -9.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 18:29 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| 2,4-D | 8.37 | 8.38 | 8.28 | 8.48 | 0.01 |
| 2,4,5-TP(Silvex) | 9.25 | 9.26 | 9.16 | 9.36 | 0.01 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 18:29 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.75 | 7.76 | 7.66 | 7.86 | 0.01 |
| 2,4-D | 8.99 | 9.01 | 8.91 | 9.11 | 0.02 |
| 2,4,5-TP(Silvex) | 9.90 | 9.91 | 9.81 | 10.01 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028463.D **Time Analyzed:** 18:29

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.253 | 9.160 | 9.360 | 730.330 | 712.500 | 2.5 |
| 2,4-D | 8.372 | 8.279 | 8.479 | 706.140 | 705.000 | 0.2 |
| 2,4-DCAA | 7.243 | 7.150 | 7.350 | 746.010 | 750.000 | -0.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028463.D **Time Analyzed:** 18:29

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.901 | 9.811 | 10.011 | 663.190 | 712.500 | -6.9 |
| 2,4-D | 8.994 | 8.905 | 9.105 | 643.750 | 705.000 | -8.7 |
| 2,4-DCAA | 7.746 | 7.655 | 7.855 | 675.910 | 750.000 | -9.9 |

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Fax : 908 789 8922

# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_S

**GC Column:** RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/08/2024 11/08/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCAA RT # | RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 11/08/2024 | 14:25 | PS028355.D | 7.25 | 0.00 |
| HSTDICC200 | HSTDICC200 | 11/08/2024 | 15:13 | PS028356.D | 7.25 | 0.00 |
| HSTDICC500 | HSTDICC500 | 11/08/2024 | 15:46 | PS028357.D | 7.25 | 0.00 |
| HSTDICC750 | HSTDICC750 | 11/08/2024 | 16:10 | PS028358.D | 7.25 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 11/08/2024 | 16:34 | PS028359.D | 7.25 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 11/08/2024 | 16:58 | PS028360.D | 7.25 | 0.00 |
| I.BLK | I.BLK | 11/12/2024 | 13:00 | PS028450.D | 7.24 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/12/2024 | 13:25 | PS028451.D | 7.24 | 0.00 |
| PB164850BL | PB164850BL | 11/12/2024 | 13:53 | PS028452.D | 7.25 | 0.00 |
| PB164850BS | PB164850BS | 11/12/2024 | 14:17 | PS028453.D | 7.24 | 0.00 |
| PB164694TB | PB164694TB | 11/12/2024 | 14:49 | PS028454.D | 7.25 | 0.00 |
| WB-307-SB02MS | P4718-03MS | 11/12/2024 | 16:03 | PS028457.D | 7.24 | 0.00 |
| WB-307-SB02MSD | P4718-03MSD | 11/12/2024 | 16:27 | PS028458.D | 7.24 | 0.00 |
| WC-1(0-6) | P4722-04 | 11/12/2024 | 16:51 | PS028459.D | 7.24 | 0.00 |
| WC-2(0-6) | P4722-09 | 11/12/2024 | 17:16 | PS028460.D | 7.24 | 0.00 |
| WC-3(0-6) | P4722-14 | 11/12/2024 | 17:41 | PS028461.D | 7.24 | 0.00 |
| I.BLK | I.BLK | 11/12/2024 | 18:04 | PS028462.D | 7.24 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/12/2024 | 18:29 | PS028463.D | 7.24 | 0.00 |

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# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_S

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/08/2024 11/08/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCAA RT # | RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 11/08/2024 | 14:25 | PS028355.D | 7.76 | 0.00 |
| HSTDICC200 | HSTDICC200 | 11/08/2024 | 15:13 | PS028356.D | 7.76 | 0.00 |
| HSTDICC500 | HSTDICC500 | 11/08/2024 | 15:46 | PS028357.D | 7.75 | 0.00 |
| HSTDICC750 | HSTDICC750 | 11/08/2024 | 16:10 | PS028358.D | 7.76 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 11/08/2024 | 16:34 | PS028359.D | 7.76 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 11/08/2024 | 16:58 | PS028360.D | 7.76 | 0.00 |
| I.BLK | I.BLK | 11/12/2024 | 13:00 | PS028450.D | 7.75 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/12/2024 | 13:25 | PS028451.D | 7.75 | 0.00 |
| PB164850BL | PB164850BL | 11/12/2024 | 13:53 | PS028452.D | 7.75 | 0.00 |
| PB164850BS | PB164850BS | 11/12/2024 | 14:17 | PS028453.D | 7.75 | 0.00 |
| PB164694TB | PB164694TB | 11/12/2024 | 14:49 | PS028454.D | 7.75 | 0.00 |
| WB-307-SB02MS | P4718-03MS | 11/12/2024 | 16:03 | PS028457.D | 7.75 | 0.00 |
| WB-307-SB02MSD | P4718-03MSD | 11/12/2024 | 16:27 | PS028458.D | 7.75 | 0.00 |
| WC-1(0-6) | P4722-04 | 11/12/2024 | 16:51 | PS028459.D | 7.75 | 0.00 |
| WC-2(0-6) | P4722-09 | 11/12/2024 | 17:16 | PS028460.D | 7.75 | 0.00 |
| WC-3(0-6) | P4722-14 | 11/12/2024 | 17:41 | PS028461.D | 7.75 | 0.00 |
| I.BLK | I.BLK | 11/12/2024 | 18:04 | PS028462.D | 7.75 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/12/2024 | 18:29 | PS028463.D | 7.75 | 0.00 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB164850BS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** PB164850BS **Date(s) Analyzed:** 11/12/2024 11/12/2024

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

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 2,4-D | 1 | 8.37 | 8.32 | 8.42 | 5.00 | 12.8 |
| | 2 | 9.00 | 8.95 | 9.05 | 4.40 | |
| 2,4,5-TP(Silvex) | 1 | 9.25 | 9.20 | 9.30 | 5.20 | 12.2 |
| | 2 | 9.90 | 9.85 | 9.95 | 4.60 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WB-307-SB02MS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4718-03MS **Date(s) Analyzed:** 11/12/2024 11/12/2024

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

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 1 | 9.25 | 9.20 | 9.30 | 46.0 | 21.2 |
| | 2 | 9.90 | 9.85 | 9.95 | 56.9 | |
| 2,4-D | 1 | 8.37 | 8.32 | 8.42 | 47.6 | 14.4 |
| | 2 | 8.99 | 8.94 | 9.04 | 41.2 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WB-307-SB02MSD**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4718-03MSD **Date(s) Analyzed:** 11/12/2024 11/12/2024

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

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 2,4-D | 1 | 8.37 | 8.32 | 8.42 | 47.8 | 11.3 |
| | 2 | 8.99 | 8.94 | 9.04 | 42.7 | |
| 2,4,5-TP(Silvex) | 1 | 9.25 | 9.20 | 9.30 | 46.2 | 23.7 |
| | 2 | 9.91 | 9.86 | 9.96 | 58.6 | |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/08/24 | |
| | | | Herbicide | 8151A | | 11/07/24 | 11/12/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-03DL** | **WC-1(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-04** | **WC-1(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP Herbicide | 8151A | | 11/10/24 | 11/12/24 | |
| | | | TCLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-05** | **WC-1(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Herbicide | 8151A | | 11/11/24 | 11/12/24 | |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/07/24 | |
| | | | Herbicide | 8151A | | 11/07/24 | 11/08/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-08DL** | **WC-2(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-09** | **WC-2(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP Herbicide | 8151A | | 11/10/24 | 11/12/24 | |

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# LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | TCLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-10** | **WC-2(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Herbicide | 8151A | | 11/11/24 | 11/12/24 | |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Gasoline Range Organics | 8015D | | | 11/08/24 | |
| | | | Herbicide | 8151A | | 11/07/24 | 11/12/24 | |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-13DL** | **WC-3(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-14** | **WC-3(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP Herbicide | 8151A | | 11/10/24 | 11/12/24 | |
| | | | TCLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |
| **P4722-15** | **WC-3(0-6)** | **WATER** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP Herbicide | 8151A | | 11/11/24 | 11/12/24 | |
| | | | SPLP Pesticide | 8081B | | 11/10/24 | 11/11/24 | |

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# Hit Summary Sheet
## SW-846

**SDG No.:** P4722 **Order ID:** P4722

**Client:** Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B

| 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-05 | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP 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 |
|---|---|---|---|---|
| PS028470.D | 1 | 11/11/24 08:40 | 11/12/24 21:45 | PB164904 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 454 | | 39 - 175 | 91% | 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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-10 | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP 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 |
|---|---|---|---|---|
| PS028471.D | 1 | 11/11/24 08:40 | 11/12/24 22:09 | PB164904 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 492 | | 39 - 175 | 98% | SPK: 500 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15 | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP 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 |
|---|---|---|---|---|
| PS028474.D | 1 | 11/11/24 08:40 | 11/12/24 23:46 | PB164904 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 512 | | 39 - 175 | 102% | SPK: 500 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/11/24 |
| Client Sample ID: | PB164904TB | SDG No.: | P4722 |
| Lab Sample ID: | PB164904TB | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP 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 |
|---|---|---|---|---|
| PS028469.D | 1 | 11/11/24 08:40 | 11/12/24 21:21 | PB164904 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 353 | | 39 - 175 | 71% | 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

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

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8151A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PS028355.D | PIBLK-PS028355.D | 2,4-DCAA | 1 | 500 | 501 | 100 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 503 | 101 | | 39 | 175 |
| I.BLK-PS028462.D | PIBLK-PS028462.D | 2,4-DCAA | 1 | 500 | 497 | 99 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 444 | 89 | | 39 | 175 |
| PB164904BL | PB164904BL | 2,4-DCAA | 1 | 500 | 478 | 96 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 404 | 81 | | 39 | 175 |
| PB164904BS | PB164904BS | 2,4-DCAA | 1 | 500 | 576 | 115 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 513 | 103 | | 39 | 175 |
| PB164904TB | PB164904TB | 2,4-DCAA | 1 | 500 | 353 | 71 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 285 | 57 | | 39 | 175 |
| P4722-05 | WC-1(0-6) | 2,4-DCAA | 1 | 500 | 454 | 91 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 387 | 77 | | 39 | 175 |
| P4722-10 | WC-2(0-6) | 2,4-DCAA | 1 | 500 | 492 | 98 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 421 | 84 | | 39 | 175 |
| I.BLK-PS028472.D | PIBLK-PS028472.D | 2,4-DCAA | 1 | 500 | 501 | 100 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 450 | 90 | | 39 | 175 |
| P4722-15 | WC-3(0-6) | 2,4-DCAA | 1 | 500 | 512 | 102 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 439 | 88 | | 39 | 175 |
| P4722-10MS | WC-2(0-6)MS | 2,4-DCAA | 1 | 500 | 490 | 98 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 438 | 88 | | 39 | 175 |
| P4722-10MSD | WC-2(0-6)MSD | 2,4-DCAA | 1 | 500 | 488 | 98 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 439 | 88 | | 39 | 175 |
| I.BLK-PS028482.D | PIBLK-PS028482.D | 2,4-DCAA | 1 | 500 | 480 | 96 | | 39 | 175 |
| | | 2,4-DCAA | 2 | 500 | 451 | 90 | | 39 | 175 |

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Fax : 908 789 8922

# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8151A **DataFile :** PS028475.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **WC-2(0-6)MS** | | | | | | | | | | | |
| P4722-10MS | 2,4-D | 5 | 0 | 4.80 | ug/L | 96 | | | | 65 | 135 | |
| | 2,4,5-TP(Silvex) | 5 | 0 | 4.70 | ug/L | 94 | | | | 62 | 139 | |

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# Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8151A **DataFile :** PS028476.D

| Lab Sample ID: | Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Client Sample ID:** | **WC-2(0-6)MSD** | | | | | | | | | | | |
| P4722-10MSD | 2,4-D | 5 | 0 | 4.90 | ug/L | 98 | | 2 | | 65 | 135 | 20 |
| | 2,4,5-TP(Silvex) | 5 | 0 | 4.80 | ug/L | 96 | | 2 | | 62 | 139 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P4722

**Client:** Walsh Construction Company II, LLC

**Analytical Method:** 8151A **Datafile :** PS028468.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB164904BS | 2,4-D | 5 | 5.40 | ug/L | 108 | | | | 83 | 130 | |
| | 2,4,5-TP(Silvex) | 5 | 5.60 | ug/L | 112 | | | | 78 | 127 | |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164904BL

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Lab Sample ID: PB164904BL Lab File ID: PS028467.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 11/11/2024

Date Analyzed (1): 11/12/2024 Date Analyzed (2): 11/12/2024

Time Analyzed (1): 20:32 Time Analyzed (2): 20:32

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 |
|---|---|---|---|---|
| PB164904BS | PB164904BS | PS028468.D | 11/12/2024 | 11/12/2024 |
| PB164904TB | PB164904TB | PS028469.D | 11/12/2024 | 11/12/2024 |
| WC-1(0-6) | P4722-05 | PS028470.D | 11/12/2024 | 11/12/2024 |
| WC-2(0-6) | P4722-10 | PS028471.D | 11/12/2024 | 11/12/2024 |
| WC-3(0-6) | P4722-15 | PS028474.D | 11/12/2024 | 11/12/2024 |
| WC-2(0-6)MS | P4722-10MS | PS028475.D | 11/13/2024 | 11/13/2024 |
| WC-2(0-6)MSD | P4722-10MSD | PS028476.D | 11/13/2024 | 11/13/2024 |

COMMENTS:

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164904BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164904BL | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP 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 |
|---|---|---|---|---|
| PS028467.D | 1 | 11/11/24 08:40 | 11/12/24 20:32 | PB164904 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 478 | | 39 - 175 | 96% | SPK: 500 |

Comments:

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/08/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/08/24 |
| Client Sample ID: | PIBLK-PS028355.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PS028355.D | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP 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 |
|---|---|---|---|---|
| PS028355.D | 1 | | 11/08/24 | PS110924 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 503 | | 39 - 175 | 101% | SPK: 500 |

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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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/12/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/12/24 |
| Client Sample ID: | PIBLK-PS028462.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PS028462.D | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP 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 |
|---|---|---|---|---|
| PS028462.D | 1 | | 11/12/24 | PS111224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 497 | | 39 - 175 | 99% | SPK: 500 |

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: | Walsh Construction Company II, LLC | Date Collected: | 11/12/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/12/24 |
| Client Sample ID: | PIBLK-PS028472.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PS028472.D | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP 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 |
|---|---|---|---|---|
| PS028472.D | 1 | | 11/12/24 | PS111224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 501 | | 39 - 175 | 100% | SPK: 500 |

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: | Walsh Construction Company II, LLC | Date Collected: | 11/13/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/13/24 |
| Client Sample ID: | PIBLK-PS028482.D | SDG No.: | P4722 |
| Lab Sample ID: | I.BLK-PS028482.D | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP 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 |
|---|---|---|---|---|
| PS028482.D | 1 | | 11/13/24 | PS111224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 0.49 | U | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 0.45 | U | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 480 | | 39 - 175 | 96% | SPK: 500 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164904BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164904BS | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP 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 |
|---|---|---|---|---|
| PS028468.D | 1 | 11/11/24 08:40 | 11/12/24 20:56 | PB164904 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 5.40 | | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 5.60 | | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 576 | | 39 - 175 | 115% | SPK: 500 |

Comments:

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6)MS | SDG No.: | P4722 |
| Lab Sample ID: | P4722-10MS | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP 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 |
|---|---|---|---|---|
| PS028475.D | 1 | 11/11/24 08:40 | 11/13/24 00:10 | PB164904 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 4.80 | | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 4.70 | | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 490 | | 39 - 175 | 98% | SPK: 500 |

Comments:

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LOQ = Limit of Quantitation
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6)MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4722-10MSD | Matrix: | WATER |
| Analytical Method: | SW8151A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | SPLP 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 |
|---|---|---|---|---|
| PS028476.D | 1 | 11/11/24 08:40 | 11/13/24 00:34 | PB164904 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 94-75-7 | 2,4-D | 4.90 | | 0.49 | 2.00 | ug/L |
| 93-72-1 | 2,4,5-TP (Silvex) | 4.80 | | 0.45 | 2.00 | ug/L |
| **SURROGATES** | | | | | | |
| 19719-28-9 | 2,4-DCAA | 488 | | 39 - 175 | 98% | SPK: 500 |

Comments:

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LOQ = Limit of Quantitation
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() = 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

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

**Calibration Times:** 15:13 16:58

GC Column: RTX-CLP ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS028356.D RT 500 = PS028357.D

RT 750 = PS028358.D RT 1000 = PS028359.D RT 1500 = PS028360.D

| COMPOUND | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.26 | 9.26 | 9.26 | 9.26 | 9.26 | 9.26 | 9.16 | 9.36 |
| 2,4-D | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.28 | 8.48 |
| 2,4-DCAA | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.15 | 7.35 |

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## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

**Calibration Times:** 15:13 16:58

---

GC Column: RTX-CLP2 ID: 0.32 (mm)

**LAB FILE ID:** RT 200 = PS028356.D RT 500 = PS028357.D

RT 750 = PS028358.D RT 1000 = PS028359.D RT 1500 = PS028360.D

| COMPOUND | RT 200 | RT 500 | RT 750 | RT 1000 | RT 1500 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.91 | 9.91 | 9.91 | 9.91 | 9.91 | 9.91 | 9.81 | 10.01 |
| 2,4-D | 9.01 | 9.00 | 9.01 | 9.01 | 9.01 | 9.00 | 8.90 | 9.10 |
| 2,4-DCAA | 7.76 | 7.75 | 7.76 | 7.76 | 7.76 | 7.75 | 7.65 | 7.85 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

**Calibration Times:** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 200 =** PS028356.D **CF 500 =** PS028357.D

**CF 750 =** PS028358.D **CF 1000 =** PS028359.D **CF 1500 =** PS028360.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 21008200000 | 18982300000 | 19068100000 | 18267500000 | 17318700000 | 18929000000 | 7 |
| 2,4-D | 3997770000 | 3571450000 | 3468690000 | 3334460000 | 3198650000 | 3514210000 | 9 |
| 2,4-DCAA | 3196830000 | 2740430000 | 2735520000 | 2619650000 | 2511350000 | 2760750000 | 9 |

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Instrument ID:** ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

**Calibration Times:** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 200 =** PS028356.D **CF 500 =** PS028357.D

**CF 750 =** PS028358.D **CF 1000 =** PS028359.D **CF 1500 =** PS028360.D

| COMPOUND | CF 200 | CF 500 | CF 750 | CF 1000 | CF 1500 | CF | % RSD |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 10970300000 | 10612300000 | 10768700000 | 10478800000 | 10130800000 | 10592200000 | 3 |
| 2,4-D | 2051780000 | 1901200000 | 1935300000 | 1900220000 | 1880580000 | 1933820000 | 4 |
| 2,4-DCAA | 1694540000 | 1575990000 | 1595150000 | 1561040000 | 1540400000 | 1593420000 | 4 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 18:29 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| 2,4-D | 8.37 | 8.38 | 8.28 | 8.48 | 0.01 |
| 2,4,5-TP(Silvex) | 9.25 | 9.26 | 9.16 | 9.36 | 0.01 |

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# CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 18:29 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.75 | 7.76 | 7.66 | 7.86 | 0.01 |
| 2,4-D | 8.99 | 9.01 | 8.91 | 9.11 | 0.02 |
| 2,4,5-TP(Silvex) | 9.90 | 9.91 | 9.81 | 10.01 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028463.D **Time Analyzed:** 18:29

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.253 | 9.160 | 9.360 | 730.330 | 712.500 | 2.5 |
| 2,4-D | 8.372 | 8.279 | 8.479 | 706.140 | 705.000 | 0.2 |
| 2,4-DCAA | 7.243 | 7.150 | 7.350 | 746.010 | 750.000 | -0.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028463.D **Time Analyzed:** 18:29

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.901 | 9.811 | 10.011 | 663.190 | 712.500 | -6.9 |
| 2,4-D | 8.994 | 8.905 | 9.105 | 643.750 | 705.000 | -8.7 |
| 2,4-DCAA | 7.746 | 7.655 | 7.855 | 675.910 | 750.000 | -9.9 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 22:57 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| 2,4-D | 8.37 | 8.38 | 8.28 | 8.48 | 0.01 |
| 2,4,5-TP(Silvex) | 9.25 | 9.26 | 9.16 | 9.36 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 22:57 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.75 | 7.76 | 7.66 | 7.86 | 0.02 |
| 2,4-D | 8.99 | 9.01 | 8.91 | 9.11 | 0.02 |
| 2,4,5-TP(Silvex) | 9.90 | 9.91 | 9.81 | 10.01 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028473.D **Time Analyzed:** 22:57

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.250 | 9.160 | 9.360 | 733.770 | 712.500 | 3.0 |
| 2,4-D | 8.371 | 8.279 | 8.479 | 706.280 | 705.000 | 0.2 |
| 2,4-DCAA | 7.241 | 7.150 | 7.350 | 747.510 | 750.000 | -0.3 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 11/12/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028473.D **Time Analyzed:** 22:57

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.900 | 9.811 | 10.011 | 667.590 | 712.500 | -6.3 |
| 2,4-D | 8.993 | 8.905 | 9.105 | 653.200 | 705.000 | -7.3 |
| 2,4-DCAA | 7.745 | 7.655 | 7.855 | 681.740 | 750.000 | -9.1 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/13/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 04:14 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.24 | 7.25 | 7.15 | 7.35 | 0.01 |
| 2,4-D | 8.37 | 8.38 | 8.28 | 8.48 | 0.01 |
| 2,4,5-TP(Silvex) | 9.25 | 9.26 | 9.16 | 9.36 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Continuing Calib Date:** 11/13/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

**Continuing Calib Time:** 04:14 **Initial Calibration Time(s):** 15:13 16:58

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)**

| COMPOUND | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|
| 2,4-DCAA | 7.74 | 7.76 | 7.66 | 7.86 | 0.02 |
| 2,4-D | 8.99 | 9.01 | 8.91 | 9.11 | 0.02 |
| 2,4,5-TP(Silvex) | 9.90 | 9.91 | 9.81 | 10.01 | 0.01 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/13/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028483.D **Time Analyzed:** 04:14

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.252 | 9.160 | 9.360 | 724.850 | 712.500 | 1.7 |
| 2,4-D | 8.371 | 8.279 | 8.479 | 701.350 | 705.000 | -0.5 |
| 2,4-DCAA | 7.242 | 7.150 | 7.350 | 740.640 | 750.000 | -1.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**GC Column:** RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 11/13/2024

**Lab Sample No.:** HSTDCCC750 **Data File :** PS028483.D **Time Analyzed:** 04:14

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 9.899 | 9.811 | 10.011 | 654.650 | 712.500 | -8.1 |
| 2,4-D | 8.993 | 8.905 | 9.105 | 645.560 | 705.000 | -8.4 |
| 2,4-DCAA | 7.744 | 7.655 | 7.855 | 671.790 | 750.000 | -10.4 |

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# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_S

**GC Column:** RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/08/2024 11/08/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCAA RT # | RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 11/08/2024 | 14:25 | PS028355.D | 7.25 | 0.00 |
| HSTDICC200 | HSTDICC200 | 11/08/2024 | 15:13 | PS028356.D | 7.25 | 0.00 |
| HSTDICC500 | HSTDICC500 | 11/08/2024 | 15:46 | PS028357.D | 7.25 | 0.00 |
| HSTDICC750 | HSTDICC750 | 11/08/2024 | 16:10 | PS028358.D | 7.25 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 11/08/2024 | 16:34 | PS028359.D | 7.25 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 11/08/2024 | 16:58 | PS028360.D | 7.25 | 0.00 |
| I.BLK | I.BLK | 11/12/2024 | 18:04 | PS028462.D | 7.24 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/12/2024 | 18:29 | PS028463.D | 7.24 | 0.00 |
| PB164904BL | PB164904BL | 11/12/2024 | 20:32 | PS028467.D | 7.24 | 0.00 |
| PB164904BS | PB164904BS | 11/12/2024 | 20:56 | PS028468.D | 7.24 | 0.00 |
| PB164904TB | PB164904TB | 11/12/2024 | 21:21 | PS028469.D | 7.24 | 0.00 |
| WC-1(0-6) | P4722-05 | 11/12/2024 | 21:45 | PS028470.D | 7.24 | 0.00 |
| WC-2(0-6) | P4722-10 | 11/12/2024 | 22:09 | PS028471.D | 7.24 | 0.00 |
| I.BLK | I.BLK | 11/12/2024 | 22:34 | PS028472.D | 7.24 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/12/2024 | 22:57 | PS028473.D | 7.24 | 0.00 |
| WC-3(0-6) | P4722-15 | 11/12/2024 | 23:46 | PS028474.D | 7.24 | 0.00 |
| WC-2(0-6)MS | P4722-10MS | 11/13/2024 | 00:10 | PS028475.D | 7.24 | 0.00 |
| WC-2(0-6)MSD | P4722-10MSD | 11/13/2024 | 00:34 | PS028476.D | 7.24 | 0.00 |
| I.BLK | I.BLK | 11/13/2024 | 03:01 | PS028482.D | 7.24 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/13/2024 | 04:14 | PS028483.D | 7.24 | 0.00 |

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# Analytical Sequence

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Sta **Instrument ID:** ECD_S

**GC Column:** RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/08/2024 11/08/2024

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

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCAA RT # | RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 11/08/2024 | 14:25 | PS028355.D | 7.76 | 0.00 |
| HSTDICC200 | HSTDICC200 | 11/08/2024 | 15:13 | PS028356.D | 7.76 | 0.00 |
| HSTDICC500 | HSTDICC500 | 11/08/2024 | 15:46 | PS028357.D | 7.75 | 0.00 |
| HSTDICC750 | HSTDICC750 | 11/08/2024 | 16:10 | PS028358.D | 7.76 | 0.00 |
| HSTDICC1000 | HSTDICC1000 | 11/08/2024 | 16:34 | PS028359.D | 7.76 | 0.00 |
| HSTDICC1500 | HSTDICC1500 | 11/08/2024 | 16:58 | PS028360.D | 7.76 | 0.00 |
| I.BLK | I.BLK | 11/12/2024 | 18:04 | PS028462.D | 7.75 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/12/2024 | 18:29 | PS028463.D | 7.75 | 0.00 |
| PB164904BL | PB164904BL | 11/12/2024 | 20:32 | PS028467.D | 7.74 | 0.00 |
| PB164904BS | PB164904BS | 11/12/2024 | 20:56 | PS028468.D | 7.74 | 0.00 |
| PB164904TB | PB164904TB | 11/12/2024 | 21:21 | PS028469.D | 7.75 | 0.00 |
| WC-1(0-6) | P4722-05 | 11/12/2024 | 21:45 | PS028470.D | 7.74 | 0.00 |
| WC-2(0-6) | P4722-10 | 11/12/2024 | 22:09 | PS028471.D | 7.75 | 0.00 |
| I.BLK | I.BLK | 11/12/2024 | 22:34 | PS028472.D | 7.74 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/12/2024 | 22:57 | PS028473.D | 7.75 | 0.00 |
| WC-3(0-6) | P4722-15 | 11/12/2024 | 23:46 | PS028474.D | 7.74 | 0.00 |
| WC-2(0-6)MS | P4722-10MS | 11/13/2024 | 00:10 | PS028475.D | 7.75 | 0.00 |
| WC-2(0-6)MSD | P4722-10MSD | 11/13/2024 | 00:34 | PS028476.D | 7.74 | 0.00 |
| I.BLK | I.BLK | 11/13/2024 | 03:01 | PS028482.D | 7.74 | 0.00 |
| HSTDCCC750 | HSTDCCC750 | 11/13/2024 | 04:14 | PS028483.D | 7.74 | 0.00 |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**PB164904BS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** PB164904BS **Date(s) Analyzed:** 11/12/2024 11/12/2024

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

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 2,4-D | 1 | 8.37 | 8.32 | 8.42 | 5.40 | 9.7 |
| | 2 | 8.99 | 8.94 | 9.04 | 4.90 | |
| 2,4,5-TP(Silvex) | 1 | 9.25 | 9.20 | 9.30 | 5.60 | 11.3 |
| | 2 | 9.90 | 9.85 | 9.95 | 5.00 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WC-2(0-6)MS**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4722-10MS **Date(s) Analyzed:** 11/13/2024 11/13/2024

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

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 2,4,5-TP(Silvex) | 1 | 9.25 | 9.20 | 9.30 | 4.70 | 8.9 |
| | 2 | 9.90 | 9.85 | 9.95 | 4.30 | |
| 2,4-D | 1 | 8.37 | 8.32 | 8.42 | 4.80 | 13.3 |
| | 2 | 8.99 | 8.94 | 9.04 | 4.20 | |

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## COMPOUND DETECTION SUMMARY

**CLIENT SAMPLE NO.**

**WC-2(0-6)MSD**

**Contract:** WALS01

**Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722 **SDG NO.:** P4722

**Lab Sample ID:** P4722-10MSD **Date(s) Analyzed:** 11/13/2024 11/13/2024

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

**GC Column: (1):** RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| 2,4-D | 1 | 8.37 | 8.32 | 8.42 | 4.90 | 13 |
| | 2 | 8.99 | 8.94 | 9.04 | 4.30 | |
| 2,4,5-TP(Silvex) | 1 | 9.25 | 9.20 | 9.30 | 4.80 | 11 |
| | 2 | 9.90 | 9.85 | 9.95 | 4.30 | |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| **P4722-03DL** | **WC-1(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| **P4722-08DL** | **WC-2(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | PCB | 8082A | | 11/07/24 | 11/07/24 | |
| | | | Pesticide-TCL | 8081B | | 11/07/24 | 11/07/24 | |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/07/24 | |
| **P4722-13DL** | **WC-3(0-6)DL** | **Solid** | | | **11/05/24** | | | **11/05/24** |
| | | | EPH_NF | NJEPH | | 11/07/24 | 11/08/24 | |

# SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 93.8 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/07/24 09:50 | 11/08/24 8:06 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 111 | | 5 | 9.57 | 10.6 | mg/kg | FE051107.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 34.6 | | 1 | 1.83 | 4.25 | mg/kg | FE051087.D |
| Total AliphaticEPH | Total AliphaticEPH | 146 | | | 11.4 | 14.8 | mg/kg | |
| Total EPH | Total EPH | 146 | | | 11.4 | 14.8 | mg/kg | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 93.8 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FE051087.D | 1 | 11/07/24 | 11/07/24 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 34.6 | | 1.83 | 4.25 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 94.8 | E | 1.91 | 2.13 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 42.3 | | 40 - 140 | 85% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 33.4 | | 40 - 140 | 67% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4722-03 | Acq On: | 07 Nov 2024 16:40 |
| Client Sample ID: | WC-1(0-6) | Operator: | YP\AJ |
| Data file: | FE051087.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 12 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.140 | 6.757 | 3212816 | 22.963 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.758 | 10.189 | 6042880 | 42.968 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.190 | 13.548 | 24400913 | 177.116 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.549 | 17.202 | 32687587 | 244.025 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.203 | 22.047 | 172210772 | 1340 | 600 | ug/ml |
| Aliphatic EPH | 3.140 | 22.047 | 238554968 | 1820 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.852 | 11.852 | 5019328 | 33.44 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.285 | 13.285 | 4804413 | 42.32 | | ug/ml |
| Aliphatic C9-C28 | 3.140 | 17.202 | 66344196 | 487.072 | 1200 | ug/ml |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6)DL | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03DL | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 93.8 |
| Sample Wt/Vol: | 30.08 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FE051107.D | 5 | 11/07/24 | 11/08/24 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 34.9 | | 9.14 | 21.3 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 111 | | 9.57 | 10.6 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 10.0 | | 40 - 140 | 100% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 7.80 | | 40 - 140 | 78% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4722-03DL | Acq On: | 08 Nov 2024 08:06 |
| Client Sample ID: | WC-1(0-6)DL | Operator: | YP\AJ |
| Data file: | FE051107.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 11 |
| Dilution Factor: | 5 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.140 | 6.758 | 177826 | 1.271 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.759 | 10.191 | 1808787 | 12.862 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.192 | 13.550 | 5580024 | 40.503 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.551 | 17.206 | 6028165 | 45.003 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.207 | 22.053 | 40475708 | 314.378 | 600 | ug/ml |
| Aliphatic EPH | 3.140 | 22.053 | 54070510 | 414.016 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.849 | 11.849 | 1171181 | 7.8 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.283 | 13.283 | 1139588 | 10.04 | | ug/ml |
| Aliphatic C9-C28 | 3.140 | 17.206 | 13594802 | 99.639 | 1200 | ug/ml |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 90.1 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/07/24 09:50 | 11/08/24 8:36 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 126 | | 5 | 9.99 | 11.1 | mg/kg | FE051108.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 35.7 | | 1 | 1.91 | 4.44 | mg/kg | FE051088.D |
| Total AliphaticEPH | Total AliphaticEPH | 162 | | | 11.9 | 15.5 | mg/kg | |
| Total EPH | Total EPH | 162 | | | 11.9 | 15.5 | mg/kg | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 90.1 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FE051088.D | 1 | 11/07/24 | 11/07/24 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 35.7 | | 1.91 | 4.44 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 120 | E | 2.00 | 2.22 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 39.8 | | 40 - 140 | 80% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 31.4 | | 40 - 140 | 63% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4722-08 | Acq On: | 07 Nov 2024 17:10 |
| Client Sample ID: | WC-2(0-6) | Operator: | YP\AJ |
| Data file: | FE051088.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 13 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.140 | 6.757 | 1980327 | 14.154 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.758 | 10.189 | 4610687 | 32.785 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.190 | 13.548 | 22243582 | 161.457 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.549 | 17.202 | 36797174 | 274.705 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.203 | 22.047 | 210369563 | 1630 | 600 | ug/ml |
| Aliphatic EPH | 3.140 | 22.047 | 276001333 | 2120 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.853 | 11.853 | 4714414 | 31.41 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.286 | 13.286 | 4513924 | 39.76 | | ug/ml |
| Aliphatic C9-C28 | 3.140 | 17.202 | 65631770 | 483.101 | 1200 | ug/ml |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6)DL | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08DL | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 90.1 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FE051108.D | 5 | 11/07/24 | 11/08/24 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 33.2 | | 9.54 | 22.2 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 126 | | 9.99 | 11.1 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 9.03 | | 40 - 140 | 90% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 7.22 | | 40 - 140 | 72% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4722-08DL | Acq On: | 08 Nov 2024 08:36 |
| Client Sample ID: | WC-2(0-6)DL | Operator: | YP\AJ |
| Data file: | FE051108.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 12 |
| Dilution Factor: | 5 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.140 | 6.758 | 459729 | 3.286 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.759 | 10.191 | 1357176 | 9.65 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.192 | 13.550 | 5012148 | 36.381 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.551 | 17.206 | 5389534 | 40.235 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.207 | 22.053 | 44149517 | 342.913 | 600 | ug/ml |
| Aliphatic EPH | 3.140 | 22.053 | 56368104 | 432.465 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.853 | 11.853 | 1083517 | 7.22 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.285 | 13.285 | 1025230 | 9.03 | | ug/ml |
| Aliphatic C9-C28 | 3.140 | 17.206 | 12218587 | 89.552 | 1200 | ug/ml |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 86.6 |
| Sample Wt/Vol: | 30.09 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/07/24 09:50 | 11/08/24 9:06 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 100 | | 5 | 10.4 | 11.5 | mg/kg | FE051109.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 21.4 | | 1 | 1.98 | 4.61 | mg/kg | FE051089.D |
| Total AliphaticEPH | Total AliphaticEPH | 121 | | | 12.4 | 16.1 | mg/kg | |
| Total EPH | Total EPH | 121 | | | 12.4 | 16.1 | mg/kg | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 86.6 |
| Sample Wt/Vol: | 30.09 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FE051089.D | 1 | 11/07/24 | 11/07/24 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 21.4 | | 1.98 | 4.61 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 91.5 | E | 2.07 | 2.30 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 28.1 | | 40 - 140 | 56% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 24.8 | | 40 - 140 | 50% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4722-13 | Acq On: | 07 Nov 2024 17:40 |
| Client Sample ID: | WC-3(0-6) | Operator: | YP\AJ |
| Data file: | FE051089.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 14 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.140 | 6.757 | 1512583 | 10.811 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.758 | 10.189 | 4667226 | 33.187 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.190 | 13.548 | 8166826 | 59.28 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.549 | 17.202 | 23630833 | 176.413 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.203 | 22.047 | 153532035 | 1190 | 600 | ug/ml |
| Aliphatic EPH | 3.140 | 22.047 | 191509503 | 1470 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.852 | 11.852 | 3722547 | 24.8 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.286 | 13.286 | 3191438 | 28.11 | | ug/ml |
| Aliphatic C9-C28 | 3.140 | 17.202 | 37977468 | 279.691 | 1200 | ug/ml |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6)DL | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13DL | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 86.6 |
| Sample Wt/Vol: | 30.09 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FE051109.D | 5 | 11/07/24 | 11/08/24 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 15.7 | J | 9.91 | 23.0 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 100 | | 10.4 | 11.5 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 6.02 | | 40 - 140 | 60% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 5.52 | | 40 - 140 | 55% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4722-13DL | Acq On: | 08 Nov 2024 09:06 |
| Client Sample ID: | WC-3(0-6)DL | Operator: | YP\AJ |
| Data file: | FE051109.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 13 |
| Dilution Factor: | 5 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.140 | 6.758 | 347187 | 2.481 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.759 | 10.191 | 1099349 | 7.817 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.192 | 13.550 | 1812358 | 13.155 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.551 | 17.206 | 2653593 | 19.81 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.207 | 22.053 | 33665606 | 261.484 | 600 | ug/ml |
| Aliphatic EPH | 3.140 | 22.053 | 39578093 | 304.747 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.852 | 11.852 | 828088 | 5.52 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.286 | 13.286 | 683995 | 6.02 | | ug/ml |
| Aliphatic C9-C28 | 3.140 | 17.206 | 5912487 | 43.263 | 1200 | ug/ml |

# QC SUMMARY

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM CASE No.: P4722 SAS No.: P4722 SDG No.: P4722

Run Number: FC110724AL

| Client SAMPLE NO. | 1-chlorooctadecane (SURR) | ortho-Terphenyl (SURR) | | TOT OUT |
|---|---|---|---|---|
| JC-701-COMP-01MS | 80 | 78 | | 0 |
| JC-701-COMP-01MSD | 80 | 79 | | 0 |
| PB164751BL | 89 | 87 | | 0 |
| PB164751BS | 71 | 70 | | 0 |
| PB164751BSD | 71 | 69 | | 0 |

| | QC LIMITS |
|---|---|
| 1-chlorooctadecane (SURR) | (40-140) |
| ortho-Terphenyl (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM CASE No.: P4722 SAS No.: P4722 SDG No.: P4722

Run Number: FE110824AL

| Client SAMPLE NO. | 1-chlorooctadecane (SURR) | ortho-Terphenyl (SURR) | | TOT OUT |
|---|---|---|---|---|
| WC-1(0-6) | 85 | 67 | | 0 |
| WC-2(0-6) | 80 | 63 | | 0 |
| WC-3(0-6) | 56 | 50 | | 0 |

| | QC LIMITS |
|---|---|
| 1-chlorooctadecane (SURR) | (40-140) |
| ortho-Terphenyl (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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## SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM CASE No.: P4722 SAS No.: P4722 SDG No.: P4722

Run Number: FE110924AL

| Client SAMPLE NO. | 1-chlorooctadecane (SURR) | ortho-Terphenyl (SURR) | | TOT OUT |
|---|---|---|---|---|
| WC-1(0-6)DL | 100 | 78 | | 0 |
| WC-2(0-6)DL | 90 | 72 | | 0 |
| WC-3(0-6)DL | 60 | 55 | | 0 |

| | QC LIMITS |
|---|---|
| 1-chlorooctadecane (SURR) | (40-140) |
| ortho-Terphenyl (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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# SOIL EPH SURROGATE RECOVERY

| | QC LIMITS |
|---|---|
| 1-chlorooctadecane (SURR) | (40-140) |
| ortho-Terphenyl (SURR) | (40-140) |

# Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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## SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Walsh Construction Company II, LLC

**Lab Code:** CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722

**Sample No :** P4720-01MS **Datafile:** FC067662.D

**Client ID :** JC-701-COMP-01MS

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|---|
| Aliphatic C28-C40 | 33.0 | 22.9 | 59.0 | 109 | | (40-140) |
| Aliphatic C9-C28 | 110.2 | 8.87 | 94.2 | 77 | | (40-140) |

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## SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Walsh Construction Company II, LLC

**Lab Code:** CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722

**Sample No :** P4720-01MSD **Datafile:** FC067663.D

**Client ID :** JC-701-COMP-01MSD

| COMPOUND | SPIKE ADDED mg/kg | SAMPLE CONCENTRATION mg/kg | MS/MSD CONCENTRATION mg/kg | % REC | Qual | RPD \| | QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|---|---|
| Aliphatic C28-C40 | 33.1 | 22.9 | 60.8 | 114 | | 4.48 \| | (40-140) | 25 |
| Aliphatic C9-C28 | 110.3 | 8.87 | 94.8 | 78 | | 0.6 \| | (40-140) | 25 |

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## SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Walsh Construction Company II, LLC

**Lab Code:** CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722

**Sample No :** PB164751BS **Datafile:** FC067658.D

**Client ID :** PB164751BS

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | QC LIMITS |
|---|---|---|---|---|---|
| Aliphatic C28-C40 | 30.0 | 27.0 | 90 | | (40-140) |
| Aliphatic C9-C28 | 100.1 | 68.6 | 68 | | (40-140) |

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## SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

**Lab Name:** Chemtech **Client:** Walsh Construction Company II, LLC

**Lab Code:** CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722

**Sample No :** PB164751BSD **Datafile:** FC067659.D

**Client ID :** PB164751BSD

| COMPOUND | SPIKE ADDED mg/kg | LCS/LCSD CONCENTRATION mg/kg | % REC | Qual | RPD \| QC LIMITS | QC Limit Of RPD |
|---|---|---|---|---|---|---|
| Aliphatic C28-C40 | 30.0 | 26.9 | 90 | | 0.271\| (40-140) | 50 |
| Aliphatic C9-C28 | 99.9 | 67.7 | 67 | | 1.4\| (40-140) | 50 |

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164751BL

Lab Name: CHEMTECH Contract: WALS01

Lab Code: CHEM Case No.: P4722 SAS No.: P4722 SDG NO.: P4722

Instrument ID: FID_C Lab Sample ID: PB164751BL

Matrix: (soil/water) Solid Date Extracted: 11/7/2024 9:50:00 A

Level: (low/med) low

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

| EPA SAMPLE NO. | LAB SAMPLE ID |
|---|---|
| PB164751BS | PB164751BS |
| PB164751BSD | PB164751BSD |
| JC-701-COMP-01MS | P4720-01MS |
| JC-701-COMP-01MSD | P4720-01MSD |
| WC-1(0-6) | P4722-03 |
| WC-2(0-6) | P4722-08 |
| WC-3(0-6) | P4722-13 |

COMMENTS:

# QC SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164751BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164751BL | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/07/24 09:50 | 11/07/24 16:01 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.80 | U | 1 | 1.80 | 2.00 | mg/kg | FC067657.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 1.72 | U | 1 | 1.72 | 3.99 | mg/kg | FC067657.D |
| Total AliphaticEPH | Total AliphaticEPH | 3.52 | U | | 3.52 | 5.99 | mg/kg | |
| Total EPH | Total EPH | 3.52 | U | | 3.52 | 5.99 | mg/kg | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

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# Report of Analysis



| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164751BL | SDG No.: | P4722 |
| Lab Sample ID: | PB164751BL | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.02 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067657.D | 1 | 11/07/24 | 11/07/24 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 1.72 | U | 1.72 | 3.99 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 1.80 | U | 1.80 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 44.7 | | 40 - 140 | 89% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 43.5 | | 40 - 140 | 87% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB164751BL | Acq On: | 07 Nov 2024 16:01 |
| Client Sample ID: | PB164751BL | Operator: | YP/AJ |
| Data file: | FC067657.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 11 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.171 | 6.452 | 0 | 0 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.453 | 9.842 | 0 | 0 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.843 | 13.198 | 0 | 0 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.199 | 16.853 | 0 | 0 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.854 | 21.696 | 0 | 0 | 600 | ug/ml |
| Aliphatic EPH | 3.171 | 21.696 | 0 | 0 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.495 | 11.495 | 6376641 | 43.46 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.933 | 12.933 | 4824972 | 44.68 | | ug/ml |
| Aliphatic C9-C28 | 3.171 | 16.853 | 0 | 0 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164751BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164751BS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/07/24 09:50 | 11/07/24 16:38 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 27.0 | | 1 | 1.80 | 2.00 | mg/kg | FC067658.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 68.6 | | 1 | 1.72 | 4.00 | mg/kg | FC067658.D |
| Total AliphaticEPH | Total AliphaticEPH | 95.6 | | | 3.52 | 6.00 | mg/kg | |
| Total EPH | Total EPH | 95.6 | | | 3.52 | 6.00 | mg/kg | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164751BS | SDG No.: | P4722 |
| Lab Sample ID: | PB164751BS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067658.D | 1 | 11/07/24 | 11/07/24 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 68.6 | | 1.72 | 4.00 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 27.0 | | 1.80 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 35.5 | | 40 - 140 | 71% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 34.8 | | 40 - 140 | 70% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB164751BS | Acq On: | 07 Nov 2024 16:38 |
| Client Sample ID: | PB164751BS | Operator: | YP/AJ |
| Data file: | FC067658.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 12 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.171 | 6.452 | 23340030 | 172.29 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.453 | 9.842 | 30785801 | 233.789 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.843 | 13.198 | 34492727 | 271.094 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.199 | 16.853 | 42081404 | 350.414 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.854 | 21.696 | 41020113 | 405.765 | 600 | ug/ml |
| Aliphatic EPH | 3.171 | 21.696 | 171720075 | 1430 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.494 | 11.494 | 5102855 | 34.78 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.931 | 12.931 | 3829694 | 35.46 | | ug/ml |
| Aliphatic C9-C28 | 3.171 | 16.853 | 130699962 | 1030 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164751BSD | SDG No.: | P4722 |
| Lab Sample ID: | PB164751BSD | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/07/24 09:50 | 11/07/24 17:15 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 26.9 | | 1 | 1.80 | 2.00 | mg/kg | FC067659.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 67.7 | | 1 | 1.72 | 3.99 | mg/kg | FC067659.D |
| Total AliphaticEPH | Total AliphaticEPH | 94.6 | | | 3.52 | 5.99 | mg/kg | |
| Total EPH | Total EPH | 94.6 | | | 3.52 | 5.99 | mg/kg | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | PB164751BSD | SDG No.: | P4722 |
| Lab Sample ID: | PB164751BSD | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067659.D | 1 | 11/07/24 | 11/07/24 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 67.7 | | 1.72 | 3.99 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 26.9 | | 1.80 | 2.00 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 35.3 | | 40 - 140 | 71% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 34.5 | | 40 - 140 | 69% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | PB164751BSD | Acq On: | 07 Nov 2024 17:15 |
| Client Sample ID: | PB164751BSD | Operator: | YP/AJ |
| Data file: | FC067659.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 13 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.171 | 6.452 | 22832781 | 168.545 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.453 | 9.842 | 30414547 | 230.97 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.843 | 13.198 | 34276315 | 269.394 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.199 | 16.853 | 41846131 | 348.455 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.854 | 21.696 | 40767490 | 403.266 | 600 | ug/ml |
| Aliphatic EPH | 3.171 | 21.696 | 170137264 | 1420 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.494 | 11.494 | 5066893 | 34.53 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.931 | 12.931 | 3816449 | 35.34 | | ug/ml |
| Aliphatic C9-C28 | 3.171 | 16.853 | 129369774 | 1020 | 1200 | ug/ml |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | JC-701-COMP-01MS | SDG No.: | P4722 |
| Lab Sample ID: | P4720-01MS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 90.6 |
| Sample Wt/Vol: | 30.07 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/07/24 09:50 | 11/07/24 19:06 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 59.0 | E | 1 | 1.98 | 2.20 | mg/kg | FC067662.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 94.2 | E | 1 | 1.89 | 4.40 | mg/kg | FC067662.D |
| Total AliphaticEPH | Total AliphaticEPH | 153 | | | 3.87 | 6.60 | mg/kg | |
| Total EPH | Total EPH | 153 | | | 3.87 | 6.60 | mg/kg | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | JC-701-COMP-01MS | SDG No.: | P4722 |
| Lab Sample ID: | P4720-01MS | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 90.6 |
| Sample Wt/Vol: | 30.07 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067662.D | 1 | 11/07/24 | 11/07/24 | PB164751 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | | 94.2 | E | 1.89 | 4.40 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 59.0 | E | 1.98 | 2.20 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 39.8 | | 40 - 140 | 80% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 39.2 | | 40 - 140 | 78% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4720-01MS | Acq On: | 07 Nov 2024 19:06 |
| Client Sample ID: | JC-701-COMP-01MS | Operator: | YP/AJ |
| Data file: | FC067662.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 16 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.171 | 6.452 | 27643069 | 204.054 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.453 | 9.842 | 35970363 | 273.161 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.843 | 13.198 | 44280239 | 348.019 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.199 | 16.853 | 55024877 | 458.195 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.854 | 21.696 | 81289720 | 804.107 | 600 | ug/ml |
| Aliphatic EPH | 3.171 | 21.696 | 244208268 | 2090 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.494 | 11.494 | 5745982 | 39.16 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.932 | 12.932 | 4295154 | 39.77 | | ug/ml |
| Aliphatic C9-C28 | 3.171 | 16.853 | 162918548 | 1280 | 1200 | ug/ml |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | JC-701-COMP-01MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4720-01MSD | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 90.6 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 11/07/24 09:50 | 11/07/24 19:43 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 60.8 | E | 1 | 1.98 | 2.21 | mg/kg | FC067663.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 94.8 | E | 1 | 1.90 | 4.41 | mg/kg | FC067663.D |
| Total AliphaticEPH | Total AliphaticEPH | 156 | | | 3.88 | 6.62 | mg/kg | |
| Total EPH | Total EPH | 156 | | | 3.88 | 6.62 | mg/kg | |

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | |
| Client Sample ID: | JC-701-COMP-01MSD | SDG No.: | P4722 |
| Lab Sample ID: | P4720-01MSD | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 90.6 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC067663.D | 1 | 11/07/24 | 11/07/24 | PB164751 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 94.8 | E | 1.90 | 4.41 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 60.8 | E | 1.98 | 2.21 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 40.0 | | 40 - 140 | 80% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 39.4 | | 40 - 140 | 79% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P4721-01MSD | Acq On: | 07 Nov 2024 19:43 |
| Client Sample ID: | JC-701-COMP-01MSD | Operator: | YP/AJ |
| Data file: | FC067663.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 17 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.171 | 6.452 | 27706187 | 204.52 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.453 | 9.842 | 36173313 | 274.703 | 200 | ug/ml |
| Aliphatic C16-C21 | 9.843 | 13.198 | 44479004 | 349.581 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.199 | 16.853 | 55319709 | 460.651 | 400 | ug/ml |
| Aliphatic C28-C40 | 16.854 | 21.696 | 83596065 | 826.921 | 600 | ug/ml |
| Aliphatic EPH | 3.171 | 21.696 | 247274278 | 2120 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.495 | 11.495 | 5776165 | 39.37 | | ug/ml |
| 1-chlorooctadecane (SURR) | 12.932 | 12.932 | 4315956 | 39.97 | | ug/ml |
| Aliphatic C9-C28 | 3.171 | 16.853 | 163678213 | 1290 | 1200 | ug/ml |

# CALIBRATION SUMMARY

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Fax : 908 789 8922

# Inital Calibration Report for SequenceID : FC102324AL

**AreaCount**

| Parameter Range | FC067506.D | FC067507.D | FC067508.D | FC067509.D | FC067510.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 39022992.000 | 19933185.000 | 8061570.000 | 4198329.000 | 2101198.000 | |
| Aliphatic C12-C16 | 25467967.000 | 12990634.000 | 5208245.000 | 2702045.000 | 1358541.000 | |
| Aliphatic C16-C21 | 36713606.000 | 18782701.000 | 7526010.000 | 3934678.000 | 1979840.000 | |
| Aliphatic C21-C28 | 45946180.000 | 23609090.000 | 9458827.000 | 4951672.000 | 2510279.000 | |
| Aliphatic C28-C40 | 56250650.000 | 29316600.000 | 11954663.000 | 6283522.000 | 3289360.000 | |
| Aliphatic EPH | 203401395.000 | 104632210.000 | 42209315.000 | 22070246.000 | 11239218.000 | |

**AVG Response Factor**

| Parameter Range | AVG RF | % RSD | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 135469.6413332 | 3.265 | | | | |
| Aliphatic C12-C16 | 131681.73 | 2.772 | | | | |
| Aliphatic C16-C21 | 127235.0919996 | 3.261 | | | | |
| Aliphatic C21-C28 | 120090.3975 | 3.678 | | | | |
| Aliphatic C28-C40 | 101093.1949996 | 6.133 | | | | |
| Aliphatic EPH | 118799.912222 | 4.081 | | | | |

**Concentration**

| Parameter Range | FC067506.D | FC067507.D | FC067508.D | FC067509.D | FC067510.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 300.000 | 150.000 | 60.000 | 30.000 | 15.000 | |
| Aliphatic C12-C16 | 200.000 | 100.000 | 40.000 | 20.000 | 10.000 | |
| Aliphatic C16-C21 | 300.000 | 150.000 | 60.000 | 30.000 | 15.000 | |
| Aliphatic C21-C28 | 400.000 | 200.000 | 80.000 | 40.000 | 20.000 | |
| Aliphatic C28-C40 | 600.000 | 300.000 | 120.000 | 60.000 | 30.000 | |
| Aliphatic EPH | 1800.000 | 900.000 | 360.000 | 180.000 | 90.000 | |

**Response Factor**

| Parameter Range | FC067506.D | FC067507.D | FC067508.D | FC067509.D | FC067510.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 130076.640000 | 132887.900000 | 134359.500000 | 139944.300000 | 140079.866666 | |
| Aliphatic C12-C16 | 127339.835000 | 129906.340000 | 130206.125000 | 135102.250000 | 135854.100000 | |
| Aliphatic C16-C21 | 122378.686666 | 125218.006666 | 125433.500000 | 131155.933333 | 131989.333333 | |

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# Inital Calibration Report for SequenceID : FC102324AL

| | | | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C21-C28 | 114865.450000 | 118045.450000 | 118235.337500 | 123791.800000 | 125513.950000 | |
| Aliphatic C28-C40 | 93751.083333 | 97722.000000 | 99622.191666 | 104725.366666 | 109645.333333 | |
| Aliphatic EPH | 113000.775000 | 116258.011111 | 117248.097222 | 122612.477777 | 124880.200000 | |

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# Inital Calibration Report for SequenceID : FE110724AL

**AreaCount**

| Parameter Range | FE051075.D | FE051076.D | FE051077.D | FE051078.D | FE051079.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 40063780.000 | 21137224.000 | 8264114.000 | 4331556.000 | 2144887.000 | |
| Aliphatic C12-C16 | 26499750.000 | 14057359.000 | 5586564.000 | 2913018.000 | 1447905.000 | |
| Aliphatic C16-C21 | 38600621.000 | 20520000.000 | 8195408.000 | 4299352.000 | 2152043.000 | |
| Aliphatic C21-C28 | 49929068.000 | 26341355.000 | 10608674.000 | 5580376.000 | 2822212.000 | |
| Aliphatic C28-C40 | 66927536.000 | 37036837.000 | 15654323.000 | 8140009.000 | 4278617.000 | |
| Aliphatic EPH | 222020755.000 | 119092775.000 | 48309083.000 | 25264311.000 | 12845664.000 | |

**AVG Response Factor**

| Parameter Range | AVG RF | % RSD | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 139914.7319996 | 3.111 | | | | |
| Aliphatic C12-C16 | 140635.568 | 3.722 | | | | |
| Aliphatic C16-C21 | 137768.027333 | 4.421 | | | | |
| Aliphatic C21-C28 | 133951.574 | 4.9 | | | | |
| Aliphatic C28-C40 | 128748.4183328 | 9.249 | | | | |
| Aliphatic EPH | 134589.7899996 | 5.649 | | | | |

**Concentration**

| Parameter Range | FE051075.D | FE051076.D | FE051077.D | FE051078.D | FE051079.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 300.000 | 150.000 | 60.000 | 30.000 | 15.000 | |
| Aliphatic C12-C16 | 200.000 | 100.000 | 40.000 | 20.000 | 10.000 | |
| Aliphatic C16-C21 | 300.000 | 150.000 | 60.000 | 30.000 | 15.000 | |
| Aliphatic C21-C28 | 400.000 | 200.000 | 80.000 | 40.000 | 20.000 | |
| Aliphatic C28-C40 | 600.000 | 300.000 | 120.000 | 60.000 | 30.000 | |
| Aliphatic EPH | 1800.000 | 900.000 | 360.000 | 180.000 | 90.000 | |

**Response Factor**

| Parameter Range | FE051075.D | FE051076.D | FE051077.D | FE051078.D | FE051079.D | |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 133545.933333 | 140914.826666 | 137735.233333 | 144385.200000 | 142992.466666 | |
| Aliphatic C12-C16 | 132498.750000 | 140573.590000 | 139664.100000 | 145650.900000 | 144790.500000 | |
| Aliphatic C16-C21 | 128668.736666 | 136800.000000 | 136590.133333 | 143311.733333 | 143469.533333 | |

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# Inital Calibration Report for SequenceID : FE110724AL

| | | | | | | |
|---|---|---|---|---|---|---|
| Aliphatic C21-C28 | 124822.670000 | 131706.775000 | 132608.425000 | 139509.400000 | 141110.600000 | |
| Aliphatic C28-C40 | 111545.893333 | 123456.123333 | 130452.691666 | 135666.816666 | 142620.566666 | |
| Aliphatic EPH | 123344.863888 | 132325.305555 | 134191.897222 | 140357.283333 | 142729.600000 | |

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# Continuing Calibration Report for SequenceID : FC110724AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC067656.D** | | | | | | |
| Aliphatic C9-C12 | 8272580.000 | 60.000 | 3.171 | 6.452 | 137876.333 | 135469.641 | -1.777 |
| Aliphatic C12-C16 | 5401387.000 | 40.000 | 6.453 | 9.842 | 135034.675 | 131681.730 | -2.546 |
| Aliphatic C16-C21 | 7780791.000 | 60.000 | 9.843 | 13.198 | 129679.850 | 127235.092 | -1.921 |
| Aliphatic C21-C28 | 9757366.000 | 80.000 | 13.199 | 16.853 | 121967.075 | 120090.398 | -1.563 |
| Aliphatic C28-C40 | 12371203.000 | 120.000 | 16.854 | 21.696 | 103093.358 | 101093.195 | -1.979 |
| Aliphatic EPH | 43583327.000 | 360.000 | 3.171 | 21.696 | 121064.797 | 118799.912 | -1.906 |

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Fax : 908 789 8922

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 07 Nov 2024 12:46 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC067656.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.171 | 6.452 | 8272580.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.453 | 9.842 | 5401387.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 9.843 | 13.198 | 7780791.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.199 | 16.853 | 9757366.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 16.854 | 21.696 | 12371203.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.171 | 21.696 | 43583327.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FC110724AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FC067666.D** | | | | | | |
| Aliphatic C9-C12 | 8377570.000 | 60.000 | 3.171 | 6.452 | 139626.167 | 135469.641 | -3.068 |
| Aliphatic C12-C16 | 5480862.000 | 40.000 | 6.453 | 9.842 | 137021.550 | 131681.730 | -4.055 |
| Aliphatic C16-C21 | 7888638.000 | 60.000 | 9.843 | 13.198 | 131477.300 | 127235.092 | -3.334 |
| Aliphatic C21-C28 | 9900793.000 | 80.000 | 13.199 | 16.853 | 123759.913 | 120090.398 | -3.056 |
| Aliphatic C28-C40 | 12533852.000 | 120.000 | 16.854 | 21.696 | 104448.767 | 101093.195 | -3.319 |
| Aliphatic EPH | 44181715.000 | 360.000 | 3.171 | 21.696 | 122726.986 | 118799.912 | -3.306 |

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Fax : 908 789 8922

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 07 Nov 2024 22:09 |
| Client Sample ID: | | Operator: | YP/AJ |
| Data file: | FC067666.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.171 | 6.452 | 8377570.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.453 | 9.842 | 5480862.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 9.843 | 13.198 | 7888638.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.199 | 16.853 | 9900793.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 16.854 | 21.696 | 12533852.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.171 | 21.696 | 44181715.000 | 360.000 | ug/ml |

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Fax : 908 789 8922

# Continuing Calibration Report for SequenceID : FE110824AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FE051085.D** | | | | | | |
| Aliphatic C9-C12 | 9183172.000 | 60.000 | 3.140 | 6.757 | 153052.867 | 139914.732 | -9.390 |
| Aliphatic C12-C16 | 6155237.000 | 40.000 | 6.758 | 10.189 | 153880.925 | 140635.568 | -9.418 |
| Aliphatic C16-C21 | 9038555.000 | 60.000 | 10.190 | 13.548 | 150642.583 | 137768.027 | -9.345 |
| Aliphatic C21-C28 | 11641146.000 | 80.000 | 13.549 | 17.202 | 145514.325 | 133951.574 | -8.632 |
| Aliphatic C28-C40 | 15647091.000 | 120.000 | 17.203 | 22.047 | 130392.425 | 128748.418 | -1.277 |
| Aliphatic EPH | 51665201.000 | 360.000 | 3.140 | 22.047 | 143514.447 | 134589.790 | -6.631 |

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Fax : 908 789 8922

| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 07 Nov 2024 12:44 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FE051085.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.140 | 6.757 | 9183172.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.758 | 10.189 | 6155237.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.190 | 13.548 | 9038555.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.549 | 17.202 | 11641146.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.203 | 22.047 | 15647091.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.140 | 22.047 | 51665201.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FE110824AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FE051103.D** | | | | | | |
| Aliphatic C9-C12 | 9283904.000 | 60.000 | 3.140 | 6.757 | 154731.733 | 139914.732 | -10.590 |
| Aliphatic C12-C16 | 6136911.000 | 40.000 | 6.758 | 10.189 | 153422.775 | 140635.568 | -9.092 |
| Aliphatic C16-C21 | 8903525.000 | 60.000 | 10.190 | 13.548 | 148392.083 | 137768.027 | -7.712 |
| Aliphatic C21-C28 | 11663758.000 | 80.000 | 13.549 | 17.202 | 145796.975 | 133951.574 | -8.843 |
| Aliphatic C28-C40 | 15600991.000 | 120.000 | 17.203 | 22.047 | 130008.258 | 128748.418 | -0.979 |
| Aliphatic EPH | 51589089.000 | 360.000 | 3.140 | 22.047 | 143303.025 | 134589.790 | -6.474 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 08 Nov 2024 01:11 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FE051103.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.140 | 6.757 | 9283904.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.758 | 10.189 | 6136911.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.190 | 13.548 | 8903525.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.549 | 17.202 | 11663758.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.203 | 22.047 | 15600991.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.140 | 22.047 | 51589089.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FE110924AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FE051106.D** | | | | | | |
| Aliphatic C9-C12 | 9286782.000 | 60.000 | 3.140 | 6.758 | 154779.700 | 139914.732 | -10.624 |
| Aliphatic C12-C16 | 6146623.000 | 40.000 | 6.759 | 10.191 | 153665.575 | 140635.568 | -9.265 |
| Aliphatic C16-C21 | 8900683.000 | 60.000 | 10.192 | 13.550 | 148344.717 | 137768.027 | -7.677 |
| Aliphatic C21-C28 | 11665637.000 | 80.000 | 13.551 | 17.206 | 145820.463 | 133951.574 | -8.861 |
| Aliphatic C28-C40 | 15458424.000 | 120.000 | 17.207 | 22.053 | 128820.200 | 128748.418 | -0.056 |
| Aliphatic EPH | 51458149.000 | 360.000 | 3.140 | 22.053 | 142939.303 | 134589.790 | -6.204 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 08 Nov 2024 05:18 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FE051106.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 2 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.140 | 6.758 | 9286782.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.759 | 10.191 | 6146623.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.192 | 13.550 | 8900683.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.551 | 17.206 | 11665637.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.207 | 22.053 | 15458424.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.140 | 22.053 | 51458149.000 | 360.000 | ug/ml |

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# Continuing Calibration Report for SequenceID : FE110924AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|---|---|---|---|---|---|---|---|
| **File ID :** | **FE051116.D** | | | | | | |
| Aliphatic C9-C12 | 8815295.000 | 60.000 | 3.140 | 6.758 | 146921.583 | 139914.732 | -5.008 |
| Aliphatic C12-C16 | 5757616.000 | 40.000 | 6.759 | 10.191 | 143940.400 | 140635.568 | -2.350 |
| Aliphatic C16-C21 | 8410292.000 | 60.000 | 10.192 | 13.550 | 140171.533 | 137768.027 | -1.745 |
| Aliphatic C21-C28 | 11021730.000 | 80.000 | 13.551 | 17.206 | 137771.625 | 133951.574 | -2.852 |
| Aliphatic C28-C40 | 14486876.000 | 120.000 | 17.207 | 22.053 | 120723.967 | 128748.418 | 6.233 |
| Aliphatic EPH | 48491809.000 | 360.000 | 3.140 | 22.053 | 134699.469 | 134589.790 | -0.081 |

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| | | | |
|---|---|---|---|
| Lab Sample ID: | 20 PPM ALIPHATIC HC S | Acq On: | 08 Nov 2024 13:07 |
| Client Sample ID: | | Operator: | YP\AJ |
| Data file: | FE051116.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 3 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | Units |
|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.140 | 6.758 | 8815295.000 | 60.000 | ug/ml |
| Aliphatic C12-C16 | 6.759 | 10.191 | 5757616.000 | 40.000 | ug/ml |
| Aliphatic C16-C21 | 10.192 | 13.550 | 8410292.000 | 60.000 | ug/ml |
| Aliphatic C21-C28 | 13.551 | 17.206 | 11021730.000 | 80.000 | ug/ml |
| Aliphatic C28-C40 | 17.207 | 22.053 | 14486876.000 | 120.000 | ug/ml |
| Aliphatic EPH | 3.140 | 22.053 | 48491809.000 | 360.000 | ug/ml |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Mercury | 7471B | | 11/07/24 | 11/07/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/06/24 | 11/07/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/06/24 | 11/08/24 | |
| **P4722-04** | **WC-1(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP ICP Metals | 6010D | | 11/07/24 | 11/08/24 | |
| | | | TCLP Mercury | 7470A | | 11/08/24 | 11/08/24 | |
| **P4722-05** | **WC-1(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP ICP Metals | 6010D | | 11/11/24 | 11/14/24 | |
| | | | SPLP Mercury | 7470A | | 11/11/24 | 11/12/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Mercury | 7471B | | 11/07/24 | 11/07/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/06/24 | 11/07/24 | |
| **P4722-09** | **WC-2(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP ICP Metals | 6010D | | 11/07/24 | 11/08/24 | |
| | | | TCLP Mercury | 7470A | | 11/08/24 | 11/08/24 | |
| **P4722-10** | **WC-2(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP ICP Metals | 6010D | | 11/11/24 | 11/14/24 | |
| | | | SPLP Mercury | 7470A | | 11/11/24 | 11/12/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Mercury | 7471B | | 11/07/24 | 11/07/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/06/24 | 11/07/24 | |
| **P4722-14** | **WC-3(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP ICP Metals | 6010D | | 11/07/24 | 11/08/24 | |
| | | | TCLP Mercury | 7470A | | 11/08/24 | 11/08/24 | |

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# LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **P4722-15** | **WC-3(0-6)** | **Water** | | | **11/05/24** | | **11/05/24** |
| | | | SPLP ICP Metals | 6010D | | 11/11/24 | 11/14/24 |
| | | | SPLP Mercury | 7470A | | 11/11/24 | 11/12/24 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722 **Order ID:** P4722

**Client:** Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B-1 S

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : WC-1(0-6)** | | | | | | | | |
| P4722-03 | WC-1(0-6) | SOIL | Aluminum | 5600 | | 2.16 | 4.48 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Antimony | 2.77 | | 0.13 | 2.24 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Arsenic | 5.57 | | 0.26 | 0.90 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Barium | 160 | | 0.57 | 4.48 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Beryllium | 0.86 | | 0.011 | 0.27 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Cadmium | 10.4 | | 0.014 | 0.27 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Calcium | 29600 | | 2.51 | 89.6 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Chromium | 65.5 | | 0.048 | 0.45 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Cobalt | 101 | | 0.052 | 1.34 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Copper | 797 | | 0.42 | 0.90 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Iron | 69700 | D | 12.0 | 22.4 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Lead | 305 | | 0.13 | 0.54 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Magnesium | 12300 | | 3.07 | 89.6 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Manganese | 229 | | 0.064 | 0.90 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Mercury | 0.20 | | 0.0070 | 0.015 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Nickel | 21.6 | | 0.081 | 1.79 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Potassium | 1150 | | 25.7 | 89.6 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Sodium | 1240 | | 32.3 | 89.6 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Thallium | 3.78 | | 0.39 | 1.79 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Vanadium | 32.8 | | 0.24 | 1.79 | mg/Kg |
| P4722-03 | WC-1(0-6) | SOIL | Zinc | 1030 | | 0.099 | 1.79 | mg/Kg |
| **Client ID : WC-2(0-6)** | | | | | | | | |
| P4722-08 | WC-2(0-6) | SOIL | Aluminum | 7170 | | 2.35 | 4.87 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Antimony | 7.41 | | 0.15 | 2.43 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Arsenic | 18.4 | | 0.28 | 0.97 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Barium | 862 | | 0.62 | 4.87 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Beryllium | 0.84 | | 0.012 | 0.29 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Cadmium | 7.47 | | 0.016 | 0.29 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Calcium | 30500 | | 2.73 | 97.4 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Chromium | 79.3 | | 0.053 | 0.49 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Cobalt | 58.6 | | 0.056 | 1.46 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Copper | 696 | | 0.46 | 0.97 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Iron | 42400 | | 2.62 | 4.87 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Lead | 1170 | | 0.15 | 0.58 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Magnesium | 5640 | | 3.34 | 97.4 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Manganese | 305 | | 0.069 | 0.97 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Mercury | 0.040 | | 0.0060 | 0.015 | mg/Kg |

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Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722 **Order ID:** P4722

**Client:** Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B-1 S

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| P4722-08 | WC-2(0-6) | SOIL | Nickel | 23.9 | | 0.088 | 1.95 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Potassium | 1080 | | 27.9 | 97.4 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Silver | 0.52 | | 0.051 | 0.49 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Sodium | 1490 | | 35.1 | 97.4 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Thallium | 2.86 | | 0.43 | 1.95 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Vanadium | 25.7 | | 0.26 | 1.95 | mg/Kg |
| P4722-08 | WC-2(0-6) | SOIL | Zinc | 1150 | | 0.11 | 1.95 | mg/Kg |
| **Client ID : WC-3(0-6)** | | | | | | | | |
| P4722-13 | WC-3(0-6) | SOIL | Aluminum | 5780 | | 2.35 | 4.87 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Antimony | 1.20 | J | 0.15 | 2.44 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Arsenic | 8.50 | | 0.28 | 0.97 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Barium | 238 | | 0.62 | 4.87 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Beryllium | 0.49 | | 0.012 | 0.29 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Cadmium | 3.89 | | 0.016 | 0.29 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Calcium | 18100 | | 2.73 | 97.4 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Chromium | 18.2 | | 0.053 | 0.49 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Cobalt | 8.42 | | 0.057 | 1.46 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Copper | 148 | | 0.46 | 0.97 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Iron | 20100 | | 2.62 | 4.87 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Lead | 468 | | 0.15 | 0.59 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Magnesium | 4310 | | 3.34 | 97.4 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Manganese | 203 | | 0.069 | 0.97 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Mercury | 0.42 | | 0.0060 | 0.014 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Nickel | 21.3 | | 0.088 | 1.95 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Potassium | 962 | | 28.0 | 97.4 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Silver | 0.50 | | 0.051 | 0.49 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Sodium | 813 | | 35.2 | 97.4 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Vanadium | 21.7 | | 0.26 | 1.95 | mg/Kg |
| P4722-13 | WC-3(0-6) | SOIL | Zinc | 521 | | 0.11 | 1.95 | mg/Kg |

# SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 93.8 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5600 | | 1 | 2.16 | 4.48 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 2.77 | | 1 | 0.13 | 2.24 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 5.57 | | 1 | 0.26 | 0.90 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 160 | | 1 | 0.57 | 4.48 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.86 | N | 1 | 0.011 | 0.27 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 10.4 | | 1 | 0.014 | 0.27 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 29600 | | 1 | 2.51 | 89.6 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 65.5 | N | 1 | 0.048 | 0.45 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 101 | | 1 | 0.052 | 1.34 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 797 | N | 1 | 0.42 | 0.90 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 69700 | D | 5 | 12.0 | 22.4 | mg/Kg | 11/06/24 13:30 | 11/08/24 00:26 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 305 | | 1 | 0.13 | 0.54 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 12300 | | 1 | 3.07 | 89.6 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 229 | | 1 | 0.064 | 0.90 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.20 | | 1 | 0.0070 | 0.015 | mg/Kg | 11/07/24 10:15 | 11/07/24 15:31 | SW7471B | |
| 7440-02-0 | Nickel | 21.6 | | 1 | 0.081 | 1.79 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 1150 | N | 1 | 25.7 | 89.6 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.30 | UN | 1 | 0.30 | 0.90 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.047 | UN | 1 | 0.047 | 0.45 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 1240 | | 1 | 32.3 | 89.6 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 3.78 | | 1 | 0.39 | 1.79 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 32.8 | N | 1 | 0.24 | 1.79 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 1030 | | 1 | 0.099 | 1.79 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:29 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Yellow | Clarity After: | | Artifacts: | N/A |
| Comments: | METALS TAL+CN | | | | |

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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 90.1 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 7170 | | 1 | 2.35 | 4.87 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 7.41 | | 1 | 0.15 | 2.43 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 18.4 | | 1 | 0.28 | 0.97 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 862 | | 1 | 0.62 | 4.87 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.84 | N | 1 | 0.012 | 0.29 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 7.47 | | 1 | 0.016 | 0.29 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 30500 | | 1 | 2.73 | 97.4 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 79.3 | N | 1 | 0.053 | 0.49 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 58.6 | | 1 | 0.056 | 1.46 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 696 | N | 1 | 0.46 | 0.97 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 42400 | | 1 | 2.62 | 4.87 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 1170 | | 1 | 0.15 | 0.58 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 5640 | | 1 | 3.34 | 97.4 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 305 | | 1 | 0.069 | 0.97 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.040 | | 1 | 0.0060 | 0.015 | mg/Kg | 11/07/24 10:15 | 11/07/24 15:34 | SW7471B | |
| 7440-02-0 | Nickel | 23.9 | | 1 | 0.088 | 1.95 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 1080 | N | 1 | 27.9 | 97.4 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.32 | UN | 1 | 0.32 | 0.97 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.52 | N | 1 | 0.051 | 0.49 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 1490 | | 1 | 35.1 | 97.4 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 2.86 | | 1 | 0.43 | 1.95 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 25.7 | N | 1 | 0.26 | 1.95 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 1150 | | 1 | 0.11 | 1.95 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:33 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Yellow | Clarity After: | | Artifacts: | N/A |
| Comments: | METALS TAL+CN | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | SOIL |
| Level (low/med): | low | % Solid: | 86.6 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5780 | | 1 | 2.35 | 4.87 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-36-0 | Antimony | 1.20 | J | 1 | 0.15 | 2.44 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-38-2 | Arsenic | 8.50 | | 1 | 0.28 | 0.97 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 238 | | 1 | 0.62 | 4.87 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-41-7 | Beryllium | 0.49 | N | 1 | 0.012 | 0.29 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 3.89 | | 1 | 0.016 | 0.29 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-70-2 | Calcium | 18100 | | 1 | 2.73 | 97.4 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 18.2 | N | 1 | 0.053 | 0.49 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-48-4 | Cobalt | 8.42 | | 1 | 0.057 | 1.46 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-50-8 | Copper | 148 | N | 1 | 0.46 | 0.97 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7439-89-6 | Iron | 20100 | | 1 | 2.62 | 4.87 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 468 | | 1 | 0.15 | 0.59 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7439-95-4 | Magnesium | 4310 | | 1 | 3.34 | 97.4 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7439-96-5 | Manganese | 203 | | 1 | 0.069 | 0.97 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.42 | | 1 | 0.0060 | 0.014 | mg/Kg | 11/07/24 10:15 | 11/07/24 15:36 | SW7471B | |
| 7440-02-0 | Nickel | 21.3 | | 1 | 0.088 | 1.95 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-09-7 | Potassium | 962 | N | 1 | 28.0 | 97.4 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7782-49-2 | Selenium | 0.32 | UN | 1 | 0.32 | 0.97 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 0.50 | N | 1 | 0.051 | 0.49 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-23-5 | Sodium | 813 | | 1 | 35.2 | 97.4 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-28-0 | Thallium | 0.43 | U | 1 | 0.43 | 1.95 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-62-2 | Vanadium | 21.7 | N | 1 | 0.26 | 1.95 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |
| 7440-66-6 | Zinc | 521 | | 1 | 0.11 | 1.95 | mg/Kg | 11/06/24 13:30 | 11/07/24 21:38 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Brown | Clarity Before: | | Texture: | Medium |
| Color After: | Yellow | Clarity After: | | Artifacts: | N/A |
| Comments: | METALS TAL+CN | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

# METAL CALIBRATION DATA

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 |
|---|---|---|---|---|---|---|---|---|---|
| ICV74 | Mercury | 3.93 | 4.0 | 98 | 90 - 110 | CV | 11/07/2024 | 14:41 | LB133334 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV47 | Mercury | 4.81 | 5.0 | 96 | 90 - 110 | CV | 11/07/2024 | 14:45 | LB133334 |
| CCV48 | Mercury | 4.90 | 5.0 | 98 | 90 - 110 | CV | 11/07/2024 | 15:13 | LB133334 |
| CCV49 | Mercury | 4.92 | 5.0 | 98 | 90 - 110 | CV | 11/07/2024 | 15:40 | LB133334 |
| CCV50 | Mercury | 4.92 | 5.0 | 98 | 90 - 110 | CV | 11/07/2024 | 16:08 | LB133334 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 2590 | 2500 | 104 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Antimony | 1010 | 1000 | 101 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Arsenic | 1030 | 1000 | 103 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Barium | 521 | 520 | 100 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Beryllium | 515 | 510 | 101 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Cadmium | 509 | 510 | 100 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Calcium | 10200 | 10000 | 102 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Chromium | 531 | 520 | 102 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Cobalt | 516 | 520 | 99 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Copper | 531 | 510 | 104 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Iron | 9990 | 10000 | 100 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Lead | 1020 | 1000 | 102 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Magnesium | 6010 | 6000 | 100 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Manganese | 526 | 520 | 101 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Nickel | 518 | 530 | 98 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Potassium | 9890 | 9900 | 100 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Selenium | 1040 | 1000 | 104 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Silver | 256 | 250 | 102 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Sodium | 9440 | 10000 | 94 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Thallium | 1100 | 1000 | 110 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Vanadium | 507 | 500 | 101 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |
| | Zinc | 1050 | 1000 | 105 | 90 - 110 | P | 11/07/2024 | 13:49 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 103 | 100 | 103 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Antimony | 50.8 | 50.0 | 102 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Arsenic | 18.0 | 20.0 | 90 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Barium | 100 | 100 | 100 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Beryllium | 5.93 | 6.0 | 99 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Cadmium | 6.52 | 6.0 | 109 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Calcium | 2010 | 2000 | 100 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Chromium | 9.52 | 10.0 | 95 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Cobalt | 29.4 | 30.0 | 98 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Copper | 22.7 | 20.0 | 114 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Iron | 96.8 | 100 | 97 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Lead | 11.4 | 12.0 | 95 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Magnesium | 2020 | 2000 | 101 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Manganese | 20.2 | 20.0 | 101 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Nickel | 38.5 | 40.0 | 96 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Potassium | 2010 | 2000 | 101 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Selenium | 20.8 | 20.0 | 104 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Silver | 10.8 | 10.0 | 108 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Sodium | 1680 | 2000 | 84 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Thallium | 43.4 | 40.0 | 108 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Vanadium | 40.8 | 40.0 | 102 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |
| | Zinc | 42.0 | 40.0 | 105 | 80 - 120 | P | 11/07/2024 | 14:23 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 10000 | 10000 | 100 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Antimony | 5120 | 5000 | 102 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Arsenic | 5040 | 5000 | 101 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Barium | 9710 | 10000 | 97 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Beryllium | 239 | 250 | 96 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Cadmium | 2450 | 2500 | 98 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Calcium | 24000 | 25000 | 96 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Chromium | 992 | 1000 | 99 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Cobalt | 2450 | 2500 | 98 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Iron | 4870 | 5000 | 97 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Lead | 4920 | 5000 | 98 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Magnesium | 24000 | 25000 | 96 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Manganese | 2370 | 2500 | 95 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Nickel | 2450 | 2500 | 98 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Potassium | 25100 | 25000 | 100 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Selenium | 5150 | 5000 | 103 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Sodium | 25300 | 25000 | 101 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Thallium | 5140 | 5000 | 103 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Vanadium | 2450 | 2500 | 98 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| | Zinc | 2530 | 2500 | 101 | 90 - 110 | P | 11/07/2024 | 15:01 | LB133344 |
| CCV02 | Aluminum | 9620 | 10000 | 96 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Antimony | 5030 | 5000 | 101 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Arsenic | 4950 | 5000 | 99 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Barium | 9390 | 10000 | 94 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Beryllium | 231 | 250 | 92 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Cadmium | 2390 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Calcium | 23100 | 25000 | 92 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Chromium | 963 | 1000 | 96 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Cobalt | 2390 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Iron | 4810 | 5000 | 96 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Lead | 4800 | 5000 | 96 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 23100 | 25000 | 92 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Manganese | 2280 | 2500 | 91 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Nickel | 2390 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Potassium | 25000 | 25000 | 100 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Selenium | 5050 | 5000 | 101 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Silver | 1220 | 1250 | 98 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Sodium | 25800 | 25000 | 103 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Thallium | 4850 | 5000 | 97 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Vanadium | 2370 | 2500 | 95 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| | Zinc | 2480 | 2500 | 99 | 90 - 110 | P | 11/07/2024 | 15:53 | LB133344 |
| CCV03 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Antimony | 5250 | 5000 | 105 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Arsenic | 5190 | 5000 | 104 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Barium | 9850 | 10000 | 98 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Beryllium | 235 | 250 | 94 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Cadmium | 2470 | 2500 | 99 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Calcium | 24000 | 25000 | 96 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Chromium | 993 | 1000 | 99 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Cobalt | 2470 | 2500 | 99 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Copper | 1300 | 1250 | 104 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Iron | 4970 | 5000 | 99 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Lead | 4970 | 5000 | 99 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Magnesium | 23900 | 25000 | 96 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Manganese | 2370 | 2500 | 95 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Nickel | 2480 | 2500 | 99 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Potassium | 25900 | 25000 | 103 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Selenium | 5320 | 5000 | 106 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Silver | 1240 | 1250 | 100 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Sodium | 25500 | 25000 | 102 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Thallium | 5400 | 5000 | 108 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Vanadium | 2460 | 2500 | 98 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| | Zinc | 2400 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 16:45 | LB133344 |
| CCV04 | Aluminum | 10200 | 10000 | 102 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Antimony | 5280 | 5000 | 106 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 5210 | 5000 | 104 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Barium | 9810 | 10000 | 98 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Beryllium | 242 | 250 | 97 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Cadmium | 2500 | 2500 | 100 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Calcium | 24200 | 25000 | 97 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Cobalt | 2490 | 2500 | 100 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Copper | 1300 | 1250 | 104 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Iron | 4980 | 5000 | 100 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Lead | 5010 | 5000 | 100 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Magnesium | 24300 | 25000 | 97 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Manganese | 2370 | 2500 | 95 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Nickel | 2490 | 2500 | 100 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Potassium | 26000 | 25000 | 104 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Selenium | 5390 | 5000 | 108 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Sodium | 25400 | 25000 | 102 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Thallium | 5070 | 5000 | 102 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Vanadium | 2490 | 2500 | 99 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| | Zinc | 2510 | 2500 | 100 | 90 - 110 | P | 11/07/2024 | 17:56 | LB133344 |
| CCV05 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Antimony | 5190 | 5000 | 104 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Arsenic | 5120 | 5000 | 102 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Barium | 9790 | 10000 | 98 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Beryllium | 236 | 250 | 94 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Cadmium | 2430 | 2500 | 97 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Calcium | 23800 | 25000 | 95 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Chromium | 988 | 1000 | 99 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Cobalt | 2430 | 2500 | 97 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Iron | 4910 | 5000 | 98 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Lead | 4880 | 5000 | 98 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Magnesium | 23800 | 25000 | 95 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Manganese | 2350 | 2500 | 94 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 2430 | 2500 | 97 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Potassium | 25800 | 25000 | 103 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Selenium | 5290 | 5000 | 106 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Sodium | 25600 | 25000 | 102 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Thallium | 5000 | 5000 | 100 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Vanadium | 2440 | 2500 | 98 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| | Zinc | 2500 | 2500 | 100 | 90 - 110 | P | 11/07/2024 | 18:32 | LB133344 |
| CCV06 | Aluminum | 9950 | 10000 | 100 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Antimony | 5160 | 5000 | 103 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Arsenic | 5110 | 5000 | 102 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Barium | 9640 | 10000 | 96 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Beryllium | 238 | 250 | 95 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Cadmium | 2460 | 2500 | 99 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Calcium | 23800 | 25000 | 95 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Chromium | 994 | 1000 | 99 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Cobalt | 2460 | 2500 | 98 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Iron | 4870 | 5000 | 97 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Lead | 4930 | 5000 | 99 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Magnesium | 23800 | 25000 | 95 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Manganese | 2330 | 2500 | 93 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Nickel | 2460 | 2500 | 98 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Potassium | 25300 | 25000 | 101 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Selenium | 5260 | 5000 | 105 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Sodium | 25300 | 25000 | 101 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Thallium | 5060 | 5000 | 101 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Vanadium | 2430 | 2500 | 97 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| | Zinc | 2490 | 2500 | 100 | 90 - 110 | P | 11/07/2024 | 19:08 | LB133344 |
| CCV07 | Aluminum | 9840 | 10000 | 98 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Antimony | 5160 | 5000 | 103 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Arsenic | 5100 | 5000 | 102 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Barium | 9400 | 10000 | 94 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 232 | 250 | 93 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Cadmium | 2420 | 2500 | 97 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Calcium | 23300 | 25000 | 93 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Chromium | 986 | 1000 | 99 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Cobalt | 2410 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Copper | 1270 | 1250 | 101 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Iron | 4800 | 5000 | 96 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Lead | 4850 | 5000 | 97 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Magnesium | 23400 | 25000 | 94 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Manganese | 2270 | 2500 | 91 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Nickel | 2410 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Potassium | 25200 | 25000 | 101 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Selenium | 5270 | 5000 | 105 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Silver | 1230 | 1250 | 98 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Sodium | 24900 | 25000 | 100 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Thallium | 4910 | 5000 | 98 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Vanadium | 2400 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| | Zinc | 2490 | 2500 | 100 | 90 - 110 | P | 11/07/2024 | 19:58 | LB133344 |
| CCV08 | Aluminum | 9850 | 10000 | 98 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Antimony | 5180 | 5000 | 104 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Arsenic | 5100 | 5000 | 102 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Barium | 9480 | 10000 | 95 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Beryllium | 234 | 250 | 94 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Cadmium | 2410 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Calcium | 23200 | 25000 | 93 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Chromium | 989 | 1000 | 99 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Cobalt | 2410 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Iron | 4890 | 5000 | 98 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Lead | 4840 | 5000 | 97 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Magnesium | 23300 | 25000 | 93 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Manganese | 2280 | 2500 | 91 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Nickel | 2410 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Potassium | 25900 | 25000 | 104 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 5290 | 5000 | 106 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Sodium | 26000 | 25000 | 104 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Thallium | 4970 | 5000 | 99 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Vanadium | 2390 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| | Zinc | 2530 | 2500 | 101 | 90 - 110 | P | 11/07/2024 | 20:58 | LB133344 |
| CCV09 | Aluminum | 9720 | 10000 | 97 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Antimony | 5100 | 5000 | 102 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Arsenic | 5030 | 5000 | 100 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Barium | 9510 | 10000 | 95 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Beryllium | 231 | 250 | 92 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Cadmium | 2390 | 2500 | 95 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Calcium | 23100 | 25000 | 92 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Chromium | 966 | 1000 | 97 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Cobalt | 2380 | 2500 | 95 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Iron | 4750 | 5000 | 95 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Lead | 4780 | 5000 | 96 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Magnesium | 22900 | 25000 | 92 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Manganese | 2250 | 2500 | 90 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Nickel | 2380 | 2500 | 95 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Potassium | 25100 | 25000 | 100 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Selenium | 5170 | 5000 | 103 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Silver | 1210 | 1250 | 97 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Sodium | 25300 | 25000 | 101 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Thallium | 5380 | 5000 | 108 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Vanadium | 2360 | 2500 | 94 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| | Zinc | 2670 | 2500 | 107 | 90 - 110 | P | 11/07/2024 | 21:51 | LB133344 |
| CCV10 | Aluminum | 9650 | 10000 | 96 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Antimony | 5080 | 5000 | 102 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Arsenic | 5000 | 5000 | 100 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Barium | 9460 | 10000 | 95 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Beryllium | 255 | 250 | 102 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Cadmium | 2340 | 2500 | 94 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 22600 | 25000 | 90 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Chromium | 963 | 1000 | 96 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Cobalt | 2340 | 2500 | 94 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Copper | 1240 | 1250 | 99 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Iron | 4790 | 5000 | 96 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Lead | 4710 | 5000 | 94 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Magnesium | 26500 | 25000 | 106 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Manganese | 2500 | 2500 | 100 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Nickel | 2340 | 2500 | 94 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Potassium | 26100 | 25000 | 104 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Selenium | 5160 | 5000 | 103 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Silver | 1220 | 1250 | 98 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Sodium | 27200 | 25000 | 109 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Thallium | 5290 | 5000 | 106 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Vanadium | 2320 | 2500 | 93 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| | Zinc | 2400 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 22:52 | LB133344 |
| CCV11 | Aluminum | 9750 | 10000 | 98 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Antimony | 5100 | 5000 | 102 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Arsenic | 5020 | 5000 | 100 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Barium | 9690 | 10000 | 97 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Beryllium | 234 | 250 | 93 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Cadmium | 2390 | 2500 | 96 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Calcium | 23200 | 25000 | 93 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Chromium | 962 | 1000 | 96 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Cobalt | 2390 | 2500 | 95 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Iron | 4730 | 5000 | 94 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Lead | 4800 | 5000 | 96 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Magnesium | 23000 | 25000 | 92 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Manganese | 2290 | 2500 | 92 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Nickel | 2390 | 2500 | 95 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Potassium | 25300 | 25000 | 101 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Selenium | 5160 | 5000 | 103 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Silver | 1210 | 1250 | 97 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 26300 | 25000 | 105 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Thallium | 5350 | 5000 | 107 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Vanadium | 2370 | 2500 | 95 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| | Zinc | 2430 | 2500 | 97 | 90 - 110 | P | 11/07/2024 | 23:43 | LB133344 |
| CCV12 | Aluminum | 9840 | 10000 | 98 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Antimony | 5240 | 5000 | 105 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Arsenic | 5150 | 5000 | 103 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Barium | 9830 | 10000 | 98 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Beryllium | 228 | 250 | 91 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Cadmium | 2390 | 2500 | 96 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Calcium | 22900 | 25000 | 92 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Chromium | 965 | 1000 | 96 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Cobalt | 2390 | 2500 | 96 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Iron | 4790 | 5000 | 96 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Lead | 4820 | 5000 | 96 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Magnesium | 22700 | 25000 | 91 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Manganese | 2260 | 2500 | 90 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Nickel | 2390 | 2500 | 96 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Potassium | 26400 | 25000 | 106 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Selenium | 5340 | 5000 | 107 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Silver | 1230 | 1250 | 98 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Sodium | 22700 | 25000 | 91 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Thallium | 5270 | 5000 | 105 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Vanadium | 2370 | 2500 | 95 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| | Zinc | 2380 | 2500 | 95 | 90 - 110 | P | 11/08/2024 | 00:39 | LB133344 |
| CCV13 | Aluminum | 9910 | 10000 | 99 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Antimony | 5250 | 5000 | 105 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Arsenic | 5160 | 5000 | 103 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Barium | 9650 | 10000 | 96 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Beryllium | 233 | 250 | 93 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Cadmium | 2420 | 2500 | 97 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Calcium | 23200 | 25000 | 93 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Chromium | 980 | 1000 | 98 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV13 | Cobalt | 2420 | 2500 | 97 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Copper | 1290 | 1250 | 103 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Iron | 4780 | 5000 | 96 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Lead | 4870 | 5000 | 97 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Magnesium | 23100 | 25000 | 92 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Manganese | 2280 | 2500 | 91 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Nickel | 2420 | 2500 | 97 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Potassium | 26000 | 25000 | 104 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Selenium | 5340 | 5000 | 107 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Silver | 1230 | 1250 | 99 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Sodium | 26900 | 25000 | 108 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Thallium | 5410 | 5000 | 108 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Vanadium | 2390 | 2500 | 96 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |
| | Zinc | 2470 | 2500 | 99 | 90 - 110 | P | 11/08/2024 | 00:57 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 106 | 100 | 106 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Antimony | 51.9 | 50.0 | 104 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Arsenic | 19.9 | 20.0 | 99 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Barium | 99.8 | 100 | 100 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Beryllium | 5.88 | 6.0 | 98 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Cadmium | 6.45 | 6.0 | 108 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Calcium | 2010 | 2000 | 101 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Chromium | 9.25 | 10.0 | 92 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Cobalt | 29.3 | 30.0 | 98 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Copper | 22.5 | 20.0 | 112 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Iron | 95.5 | 100 | 96 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Lead | 11.3 | 12.0 | 94 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Magnesium | 2000 | 2000 | 100 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Manganese | 20.5 | 20.0 | 102 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Nickel | 38.8 | 40.0 | 97 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Potassium | 1950 | 2000 | 98 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Selenium | 18.8 | 20.0 | 94 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Silver | 10.7 | 10.0 | 107 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Sodium | 1610 | 2000 | 81 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Thallium | 41.6 | 40.0 | 104 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Vanadium | 40.4 | 40.0 | 101 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| | Zinc | 41.4 | 40.0 | 104 | 40 - 160 | P | 11/07/2024 | 14:42 | LB133344 |
| CRA | Mercury | 0.17 | 0.2 | 83 | 40 - 160 | CV | 11/07/2024 | 14:50 | LB133334 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICB74** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/07/2024 | 14:43 | LB133334 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB47** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/07/2024 | 14:48 | LB133334 |
| **CCB48** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/07/2024 | 15:15 | LB133334 |
| **CCB49** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/07/2024 | 15:43 | LB133334 |
| **CCB50** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/07/2024 | 16:10 | LB133334 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 100 | +/-100 | U | 100 | P | 11/07/2024 | 14:38 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/07/2024 | 14:38 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 14:38 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/07/2024 | 14:38 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 14:38 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 14:38 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 14:38 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 14:38 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/07/2024 | 14:38 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 14:38 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/07/2024 | 14:38 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/07/2024 | 14:38 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 14:38 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 14:38 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 14:38 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 14:38 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 14:38 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 14:38 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 14:38 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 14:38 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 14:38 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 14:38 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB01 | Aluminum | 100 | +/-100 | U | 100 | P | 11/07/2024 | 15:05 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/07/2024 | 15:05 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 15:05 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/07/2024 | 15:05 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 15:05 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 15:05 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 15:05 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 15:05 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/07/2024 | 15:05 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 15:05 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/07/2024 | 15:05 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/07/2024 | 15:05 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 15:05 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 15:05 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 15:05 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 15:05 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 15:05 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 15:05 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 15:05 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 15:05 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 15:05 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 15:05 | LB133344 |
| CCB02 | Aluminum | 100 | +/-100 | U | 100 | P | 11/07/2024 | 15:58 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/07/2024 | 15:58 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 15:58 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/07/2024 | 15:58 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 15:58 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 15:58 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 15:58 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 15:58 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/07/2024 | 15:58 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 15:58 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/07/2024 | 15:58 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/07/2024 | 15:58 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 15:58 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 15:58 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 15:58 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 15:58 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 15:58 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB02** | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 15:58 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 15:58 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 15:58 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 15:58 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 15:58 | LB133344 |
| **CCB03** | Aluminum | 100 | +/-100 | U | 100 | P | 11/07/2024 | 16:49 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/07/2024 | 16:49 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 16:49 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/07/2024 | 16:49 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 16:49 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 16:49 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 16:49 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 16:49 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/07/2024 | 16:49 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 16:49 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/07/2024 | 16:49 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/07/2024 | 16:49 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 16:49 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 16:49 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 16:49 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 16:49 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 16:49 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 16:49 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 16:49 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 16:49 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 16:49 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 16:49 | LB133344 |
| **CCB04** | Aluminum | 100 | +/-100 | U | 100 | P | 11/07/2024 | 18:04 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/07/2024 | 18:04 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 18:04 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/07/2024 | 18:04 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 18:04 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 18:04 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 18:04 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 18:04 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/07/2024 | 18:04 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 18:04 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/07/2024 | 18:04 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/07/2024 | 18:04 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB04 | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 18:04 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 18:04 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 18:04 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 18:04 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 18:04 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 18:04 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 18:04 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 18:04 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 18:04 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 18:04 | LB133344 |
| CCB05 | Aluminum | 100 | +/-100 | U | 100 | P | 11/07/2024 | 18:37 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/07/2024 | 18:37 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 18:37 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/07/2024 | 18:37 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 18:37 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 18:37 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 18:37 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 18:37 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/07/2024 | 18:37 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 18:37 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/07/2024 | 18:37 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/07/2024 | 18:37 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 18:37 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 18:37 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 18:37 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 18:37 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 18:37 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 18:37 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 18:37 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 18:37 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 18:37 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 18:37 | LB133344 |
| CCB06 | Aluminum | 100 | +/-100 | U | 100 | P | 11/07/2024 | 19:12 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/07/2024 | 19:12 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 19:12 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/07/2024 | 19:12 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 19:12 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 19:12 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 19:12 | LB133344 |

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB06** | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 19:12 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/07/2024 | 19:12 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 19:12 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/07/2024 | 19:12 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/07/2024 | 19:12 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 19:12 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 19:12 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 19:12 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 19:12 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 19:12 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 19:12 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 19:12 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 19:12 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 19:12 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 19:12 | LB133344 |
| **CCB07** | Aluminum | 100 | +/-100 | U | 100 | P | 11/07/2024 | 20:02 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/07/2024 | 20:02 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 20:02 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/07/2024 | 20:02 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 20:02 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 20:02 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 20:02 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 20:02 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/07/2024 | 20:02 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 20:02 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/07/2024 | 20:02 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/07/2024 | 20:02 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 20:02 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 20:02 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 20:02 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 20:02 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 20:02 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 20:02 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 20:02 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 20:02 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 20:02 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 20:02 | LB133344 |
| **CCB08** | Aluminum | 100 | +/-100 | U | 100 | P | 11/07/2024 | 21:02 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/07/2024 | 21:02 | LB133344 |

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Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB08** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 21:02 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/07/2024 | 21:02 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 21:02 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 21:02 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 21:02 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 21:02 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/07/2024 | 21:02 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 21:02 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/07/2024 | 21:02 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/07/2024 | 21:02 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 21:02 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 21:02 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 21:02 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 21:02 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 21:02 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 21:02 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 21:02 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 21:02 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 21:02 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 21:02 | LB133344 |
| **CCB09** | Aluminum | 100 | +/-100 | U | 100 | P | 11/07/2024 | 21:55 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/07/2024 | 21:55 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 21:55 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/07/2024 | 21:55 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 21:55 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 21:55 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 21:55 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 21:55 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/07/2024 | 21:55 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 21:55 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/07/2024 | 21:55 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/07/2024 | 21:55 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 21:55 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 21:55 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 21:55 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 21:55 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 21:55 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 21:55 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 21:55 | LB133344 |

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

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB09** | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 21:55 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 21:55 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 21:55 | LB133344 |
| **CCB10** | Aluminum | 100 | +/-100 | U | 100 | P | 11/07/2024 | 22:56 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/07/2024 | 22:56 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 22:56 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/07/2024 | 22:56 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 22:56 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 22:56 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 22:56 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 22:56 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/07/2024 | 22:56 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 22:56 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/07/2024 | 22:56 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/07/2024 | 22:56 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 22:56 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 22:56 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 22:56 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 22:56 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 22:56 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 22:56 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 22:56 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 22:56 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 22:56 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 22:56 | LB133344 |
| **CCB11** | Aluminum | 100 | +/-100 | U | 100 | P | 11/07/2024 | 23:47 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/07/2024 | 23:47 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 23:47 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/07/2024 | 23:47 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 23:47 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/07/2024 | 23:47 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 23:47 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 23:47 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/07/2024 | 23:47 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 23:47 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/07/2024 | 23:47 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/07/2024 | 23:47 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 23:47 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 23:47 | LB133344 |

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

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB11 | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 23:47 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 23:47 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/07/2024 | 23:47 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/07/2024 | 23:47 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/07/2024 | 23:47 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 23:47 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 23:47 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/07/2024 | 23:47 | LB133344 |
| CCB12 | Aluminum | 100 | +/-100 | U | 100 | P | 11/08/2024 | 00:43 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/08/2024 | 00:43 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 00:43 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 00:43 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 00:43 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 00:43 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/08/2024 | 00:43 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 00:43 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/08/2024 | 00:43 | LB133344 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 00:43 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/08/2024 | 00:43 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 00:43 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/08/2024 | 00:43 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 00:43 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/08/2024 | 00:43 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/08/2024 | 00:43 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 00:43 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 00:43 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/08/2024 | 00:43 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/08/2024 | 00:43 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/08/2024 | 00:43 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/08/2024 | 00:43 | LB133344 |
| CCB13 | Aluminum | 100 | +/-100 | U | 100 | P | 11/08/2024 | 01:01 | LB133344 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/08/2024 | 01:01 | LB133344 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 01:01 | LB133344 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 01:01 | LB133344 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 01:01 | LB133344 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 01:01 | LB133344 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/08/2024 | 01:01 | LB133344 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 01:01 | LB133344 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/08/2024 | 01:01 | LB133344 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB13 | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 01:01 | LB133344 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/08/2024 | 01:01 | LB133344 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 01:01 | LB133344 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/08/2024 | 01:01 | LB133344 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 01:01 | LB133344 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/08/2024 | 01:01 | LB133344 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/08/2024 | 01:01 | LB133344 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 01:01 | LB133344 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 01:01 | LB133344 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/08/2024 | 01:01 | LB133344 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/08/2024 | 01:01 | LB133344 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/08/2024 | 01:01 | LB133344 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/08/2024 | 01:01 | LB133344 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Instrument:** CV1

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB164762BL** | | **SOLID** | | **Batch Number:** | **PB164762** | | **Prep Date:** | **11/07/2024** | |
| | Mercury | 0.013 | <0.013 | U | 0.013 | CV | 11/07/2024 | 14:57 | LB133334 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Instrument:** P4

| Sample ID | Analyte | Result (mg/Kg) | Acceptance Limit | Conc Qual | CRQL mg/Kg | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB164723BL** | | **SOLID** | | **Batch Number:** | **PB164723** | | **Prep Date:** | **11/06/2024** | |
| | Aluminum | 4.85 | <4.85 | U | 4.85 | P | 11/07/2024 | 21:42 | LB133344 |
| | Antimony | 2.43 | <2.43 | U | 2.43 | P | 11/07/2024 | 21:42 | LB133344 |
| | Arsenic | 0.97 | <0.97 | U | 0.97 | P | 11/07/2024 | 21:42 | LB133344 |
| | Barium | 4.85 | <4.85 | U | 4.85 | P | 11/07/2024 | 21:42 | LB133344 |
| | Beryllium | 0.29 | <0.29 | U | 0.29 | P | 11/07/2024 | 21:42 | LB133344 |
| | Cadmium | 0.29 | <0.29 | U | 0.29 | P | 11/07/2024 | 21:42 | LB133344 |
| | Calcium | 97.1 | <97.1 | U | 97.1 | P | 11/07/2024 | 21:42 | LB133344 |
| | Chromium | 0.49 | <0.49 | U | 0.49 | P | 11/07/2024 | 21:42 | LB133344 |
| | Cobalt | 1.46 | <1.46 | U | 1.46 | P | 11/07/2024 | 21:42 | LB133344 |
| | Copper | 0.97 | <0.97 | U | 0.97 | P | 11/07/2024 | 21:42 | LB133344 |
| | Iron | 4.85 | <4.85 | U | 4.85 | P | 11/07/2024 | 21:42 | LB133344 |
| | Lead | 0.58 | <0.58 | U | 0.58 | P | 11/07/2024 | 21:42 | LB133344 |
| | Magnesium | 97.1 | <97.1 | U | 97.1 | P | 11/07/2024 | 21:42 | LB133344 |
| | Manganese | 0.97 | <0.97 | U | 0.97 | P | 11/07/2024 | 21:42 | LB133344 |
| | Nickel | 1.94 | <1.94 | U | 1.94 | P | 11/07/2024 | 21:42 | LB133344 |
| | Potassium | 97.1 | <97.1 | U | 97.1 | P | 11/07/2024 | 21:42 | LB133344 |
| | Selenium | 0.97 | <0.97 | U | 0.97 | P | 11/07/2024 | 21:42 | LB133344 |
| | Silver | 0.49 | <0.49 | U | 0.49 | P | 11/07/2024 | 21:42 | LB133344 |
| | Sodium | 97.1 | <97.1 | U | 97.1 | P | 11/07/2024 | 21:42 | LB133344 |
| | Thallium | 1.94 | <1.94 | U | 1.94 | P | 11/07/2024 | 21:42 | LB133344 |
| | Vanadium | 1.94 | <1.94 | U | 1.94 | P | 11/07/2024 | 21:42 | LB133344 |
| | Zinc | 1.94 | <1.94 | U | 1.94 | P | 11/07/2024 | 21:42 | LB133344 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICSA01 | Aluminum | 255000 | 255000 | 100 | 216000 | 294000 | 11/07/2024 | 14:47 | LB133344 |
| | Antimony | -0.14 | | | -50 | 50 | 11/07/2024 | 14:47 | LB133344 |
| | Arsenic | 4.03 | | | -20 | 20 | 11/07/2024 | 14:47 | LB133344 |
| | Barium | 1.97 | 6.0 | 33 | -94 | 106 | 11/07/2024 | 14:47 | LB133344 |
| | Beryllium | 1.25 | | | -6 | 6 | 11/07/2024 | 14:47 | LB133344 |
| | Cadmium | 6.27 | 1.0 | 627 | -5 | 7 | 11/07/2024 | 14:47 | LB133344 |
| | Calcium | 235000 | 245000 | 96 | 208000 | 282000 | 11/07/2024 | 14:47 | LB133344 |
| | Chromium | 54.7 | 52.0 | 105 | 42 | 62 | 11/07/2024 | 14:47 | LB133344 |
| | Cobalt | 1.98 | | | -30 | 30 | 11/07/2024 | 14:47 | LB133344 |
| | Copper | 6.59 | 2.0 | 330 | -18 | 22 | 11/07/2024 | 14:47 | LB133344 |
| | Iron | 95800 | 101000 | 95 | 85600 | 116500 | 11/07/2024 | 14:47 | LB133344 |
| | Lead | 8.91 | | | -12 | 12 | 11/07/2024 | 14:47 | LB133344 |
| | Magnesium | 257000 | 255000 | 101 | 216000 | 294000 | 11/07/2024 | 14:47 | LB133344 |
| | Manganese | 4.04 | 7.0 | 58 | -13 | 27 | 11/07/2024 | 14:47 | LB133344 |
| | Nickel | 2.14 | 2.0 | 107 | -38 | 42 | 11/07/2024 | 14:47 | LB133344 |
| | Potassium | 27.1 | | | 0 | 0 | 11/07/2024 | 14:47 | LB133344 |
| | Selenium | -18.3 | | | -20 | 20 | 11/07/2024 | 14:47 | LB133344 |
| | Silver | 0.85 | | | -10 | 10 | 11/07/2024 | 14:47 | LB133344 |
| | Sodium | -30.2 | | | 0 | 0 | 11/07/2024 | 14:47 | LB133344 |
| | Thallium | 4.42 | | | -40 | 40 | 11/07/2024 | 14:47 | LB133344 |
| | Vanadium | 7.40 | | | -40 | 40 | 11/07/2024 | 14:47 | LB133344 |
| | Zinc | 6.19 | | | -40 | 40 | 11/07/2024 | 14:47 | LB133344 |
| ICSAB01 | Aluminum | 261000 | 247000 | 106 | 209000 | 285000 | 11/07/2024 | 14:51 | LB133344 |
| | Antimony | 621 | 618 | 100 | 525 | 711 | 11/07/2024 | 14:51 | LB133344 |
| | Arsenic | 116 | 104 | 112 | 88.4 | 120 | 11/07/2024 | 14:51 | LB133344 |
| | Barium | 504 | 537 | 94 | 437 | 637 | 11/07/2024 | 14:51 | LB133344 |
| | Beryllium | 498 | 495 | 101 | 420 | 570 | 11/07/2024 | 14:51 | LB133344 |
| | Cadmium | 999 | 972 | 103 | 826 | 1120 | 11/07/2024 | 14:51 | LB133344 |
| | Calcium | 238000 | 235000 | 101 | 199000 | 271000 | 11/07/2024 | 14:51 | LB133344 |
| | Chromium | 556 | 542 | 103 | 460 | 624 | 11/07/2024 | 14:51 | LB133344 |
| | Cobalt | 503 | 476 | 106 | 404 | 548 | 11/07/2024 | 14:51 | LB133344 |
| | Copper | 493 | 511 | 96 | 434 | 588 | 11/07/2024 | 14:51 | LB133344 |
| | Iron | 98300 | 99300 | 99 | 84400 | 114500 | 11/07/2024 | 14:51 | LB133344 |
| | Lead | 56.6 | 49.0 | 116 | 37 | 61 | 11/07/2024 | 14:51 | LB133344 |
| | Magnesium | 260000 | 248000 | 105 | 210000 | 286000 | 11/07/2024 | 14:51 | LB133344 |
| | Manganese | 484 | 507 | 96 | 430 | 584 | 11/07/2024 | 14:51 | LB133344 |
| | Nickel | 991 | 954 | 104 | 810 | 1100 | 11/07/2024 | 14:51 | LB133344 |
| | Potassium | 10.4 | | | 0 | 0 | 11/07/2024 | 14:51 | LB133344 |
| | Selenium | 32.9 | 46.0 | 72 | 26 | 66 | 11/07/2024 | 14:51 | LB133344 |
| | Silver | 201 | 201 | 100 | 170 | 232 | 11/07/2024 | 14:51 | LB133344 |
| | Sodium | -89.4 | | | 0 | 0 | 11/07/2024 | 14:51 | LB133344 |
| | Thallium | 106 | 108 | 98 | 68 | 148 | 11/07/2024 | 14:51 | LB133344 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICSAB01 | Vanadium | 493 | 491 | 100 | 417 | 565 | 11/07/2024 | 14:51 | LB133344 |
| | Zinc | 835 | 952 | 88 | 809 | 1095 | 11/07/2024 | 14:51 | LB133344 |

# METAL QC DATA

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Walsh Construction Company II, LLC **level:** low **sdg no.:** P4722

**contract:** WALS01 **lab code:** CHEM **case no.:** P4722 **sas no.:** P4722

**matrix:** Solid **sample id:** P4706-01 **client id:** TR-04-110424MS

**Percent Solids for Sample:** 93.5 **Spiked ID:** P4706-01MS **Percent Solids for Spike Sample:** 93.5

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 80 - 120 | 0.33 | | 0.060 | | 0.27 | 99 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Walsh Construction Company II, LLC **level:** low **sdg no.:** P4722

**contract:** WALS01 **lab code:** CHEM **case no.:** P4722 **sas no.:** P4722

**matrix:** Solid **sample id:** P4706-01 **client id:** TR-04-110424MSD

**Percent Solids for Sample:** 93.5 **Spiked ID:** P4706-01MSD **Percent Solids for Spike Sample:** 93.5

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 80 - 120 | 0.33 | | 0.060 | | 0.28 | 95 | | CV |

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Walsh Construction Company II, LLC **level:** low **sdg no.:** P4722

**contract:** WALS01 **lab code:** CHEM **case no.:** P4722 **sas no.:** P4722

**matrix:** Solid **sample id:** P4720-01 **client id:** JC-701-COMP-01MS

**Percent Solids for Sample:** 90.6 **Spiked ID:** P4720-01MS **Percent Solids for Spike Sample:** 90.6

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 75 - 125 | 8270 | | 8600 | | 97.2 | -335 | | P |
| Antimony | mg/Kg | 75 - 125 | 30.4 | | 0.32 | J | 38.9 | 77 | | P |
| Arsenic | mg/Kg | 75 - 125 | 34.5 | | 4.31 | | 38.9 | 78 | | P |
| Barium | mg/Kg | 75 - 125 | 162 | | 158 | | 9.7 | 45 | | P |
| Beryllium | mg/Kg | 75 - 125 | 7.23 | | 0.67 | | 9.7 | 68 | N | P |
| Cadmium | mg/Kg | 75 - 125 | 11.5 | | 2.44 | | 9.7 | 93 | | P |
| Calcium | mg/Kg | 75 - 125 | 2660 | | 2790 | | 48.6 | -257 | | P |
| Chromium | mg/Kg | 75 - 125 | 25.5 | | 12.2 | | 19.4 | 68 | N | P |
| Cobalt | mg/Kg | 75 - 125 | 16.7 | | 7.68 | | 9.7 | 93 | | P |
| Copper | mg/Kg | 75 - 125 | 32.5 | | 22.0 | | 14.6 | 72 | N | P |
| Iron | mg/Kg | 75 - 125 | 12900 | | 13000 | | 150 | -50 | | P |
| Lead | mg/Kg | 75 - 125 | 233 | | 193 | | 48.6 | 84 | | P |
| Magnesium | mg/Kg | 75 - 125 | 2230 | | 2370 | | 97.2 | -139 | | P |
| Manganese | mg/Kg | 75 - 125 | 423 | | 420 | | 9.7 | 33 | | P |
| Nickel | mg/Kg | 75 - 125 | 35.8 | | 13.3 | | 24.3 | 92 | | P |
| Potassium | mg/Kg | 75 - 125 | 1400 | | 1180 | | 490 | 46 | N | P |
| Selenium | mg/Kg | 75 - 125 | 71.4 | | 1.04 | U | 97.2 | 74 | N | P |
| Silver | mg/Kg | 75 - 125 | 3.21 | | 0.46 | J | 3.6 | 76 | | P |
| Sodium | mg/Kg | 75 - 125 | 121 | | 104 | U | 150 | 81 | | P |
| Thallium | mg/Kg | 75 - 125 | 92.6 | | 2.07 | U | 97.2 | 95 | | P |
| Vanadium | mg/Kg | 75 - 125 | 26.7 | | 17.3 | | 14.6 | 64 | N | P |
| Zinc | mg/Kg | 75 - 125 | 233 | | 188 | | 9.7 | 463 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Walsh Construction Company II, LLC **level:** low **sdg no.:** P4722

**contract:** WALS01 **lab code:** CHEM **case no.:** P4722 **sas no.:** P4722

**matrix:** Solid **sample id:** P4720-01 **client id:** JC-701-COMP-01MSD

**Percent Solids for Sample:** 90.6 **Spiked ID:** P4720-01MSD **Percent Solids for Spike Sample:** 90.6

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 75 - 125 | 8640 | | 8600 | | 100 | 38 | | P |
| Antimony | mg/Kg | 75 - 125 | 31.0 | | 0.32 | J | 40.3 | 76 | | P |
| Arsenic | mg/Kg | 75 - 125 | 35.3 | | 4.31 | | 40.3 | 77 | | P |
| Barium | mg/Kg | 75 - 125 | 168 | | 158 | | 10.1 | 105 | | P |
| Beryllium | mg/Kg | 75 - 125 | 7.34 | | 0.67 | | 10.1 | 66 | N | P |
| Cadmium | mg/Kg | 75 - 125 | 11.8 | | 2.44 | | 10.1 | 92 | | P |
| Calcium | mg/Kg | 75 - 125 | 2740 | | 2790 | | 50.4 | -98 | | P |
| Chromium | mg/Kg | 75 - 125 | 26.1 | | 12.2 | | 20.2 | 69 | N | P |
| Cobalt | mg/Kg | 75 - 125 | 17.1 | | 7.68 | | 10.1 | 93 | | P |
| Copper | mg/Kg | 75 - 125 | 33.9 | | 22.0 | | 15.1 | 79 | | P |
| Iron | mg/Kg | 75 - 125 | 13100 | | 13000 | | 150 | 42 | | P |
| Lead | mg/Kg | 75 - 125 | 241 | | 193 | | 50.4 | 95 | | P |
| Magnesium | mg/Kg | 75 - 125 | 2310 | | 2370 | | 100 | -57 | | P |
| Manganese | mg/Kg | 75 - 125 | 434 | | 420 | | 10.1 | 139 | | P |
| Nickel | mg/Kg | 75 - 125 | 36.7 | | 13.3 | | 25.2 | 93 | | P |
| Potassium | mg/Kg | 75 - 125 | 1430 | | 1180 | | 500 | 51 | N | P |
| Selenium | mg/Kg | 75 - 125 | 73.0 | | 1.04 | U | 100 | 73 | N | P |
| Silver | mg/Kg | 75 - 125 | 3.17 | | 0.46 | J | 3.8 | 71 | N | P |
| Sodium | mg/Kg | 75 - 125 | 121 | | 104 | U | 150 | 81 | | P |
| Thallium | mg/Kg | 75 - 125 | 95.4 | | 2.07 | U | 100 | 95 | | P |
| Vanadium | mg/Kg | 75 - 125 | 27.6 | | 17.3 | | 15.1 | 68 | N | P |
| Zinc | mg/Kg | 75 - 125 | 239 | | 188 | | 10.1 | 510 | | P |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Matrix:** Solid **Level:** LOW **Client ID:** JC-701-COMP-01A

**Sample ID:** P4720-01 **Spiked ID:** P4720-01A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium | mg/Kg | 75 - 125 | 7.44 | | 0.67 | | 10.4 | 65 | | P |
| Chromium | mg/Kg | 75 - 125 | 26.6 | | 12.2 | | 20.7 | 69 | | P |
| Copper | mg/Kg | 75 - 125 | 34.2 | | 22.0 | | 15.5 | 78 | | P |
| Potassium | mg/Kg | 75 - 125 | 1480 | | 1180 | | 520 | 59 | | P |
| Selenium | mg/Kg | 75 - 125 | 74.8 | | 1.04 | U | 100 | 75 | | P |
| Silver | mg/Kg | 75 - 125 | 3.33 | | 0.46 | J | 3.90 | 74 | | P |
| Vanadium | mg/Kg | 75 - 125 | 28.1 | | 17.3 | | 15.5 | 69 | | P |

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Walsh Construction Company II, LLC **Level:** LOW **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Matrix:** Solid **Sample ID:** P4706-01 **Client ID:** TR-04-110424DUP

**Percent Solids for Sample:** 93.5 **Duplicate ID** P4706-01DUP **Percent Solids for Spike Sample:** 93.5

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 20 | 0.060 | | 0.063 | | 5 | | 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:** Walsh Construction Company II, LLC **Level:** LOW **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Matrix:** Solid **Sample ID:** P4706-01MS **Client ID:** TR-04-110424MSD

**Percent Solids for Sample:** 93.5 **Duplicate ID** P4706-01MSD **Percent Solids for Spike Sample:** 93.5

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/Kg | 20 | 0.33 | | 0.33 | | 0 | | 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:** Walsh Construction Company II, LLC **Level:** LOW **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Matrix:** Solid **Sample ID:** P4720-01 **Client ID:** JC-701-COMP-01DUP

**Percent Solids for Sample:** 90.6 **Duplicate ID** P4720-01DUP **Percent Solids for Spike Sample:** 90.6

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 20 | 8600 | | 8340 | | 3 | | P |
| Antimony | mg/Kg | 20 | 0.32 | J | 0.28 | J | 13 | | P |
| Arsenic | mg/Kg | 20 | 4.31 | | 3.98 | | 8 | | P |
| Barium | mg/Kg | 20 | 158 | | 153 | | 3 | | P |
| Beryllium | mg/Kg | 20 | 0.67 | | 0.66 | | 2 | | P |
| Cadmium | mg/Kg | 20 | 2.44 | | 2.39 | | 2 | | P |
| Calcium | mg/Kg | 20 | 2790 | | 2700 | | 3 | | P |
| Chromium | mg/Kg | 20 | 12.2 | | 11.9 | | 2 | | P |
| Cobalt | mg/Kg | 20 | 7.68 | | 7.50 | | 2 | | P |
| Copper | mg/Kg | 20 | 22.0 | | 21.6 | | 2 | | P |
| Iron | mg/Kg | 20 | 13000 | | 12500 | | 4 | | P |
| Lead | mg/Kg | 20 | 193 | | 188 | | 3 | | P |
| Magnesium | mg/Kg | 20 | 2370 | | 2300 | | 3 | | P |
| Manganese | mg/Kg | 20 | 420 | | 407 | | 3 | | P |
| Nickel | mg/Kg | 20 | 13.3 | | 13.0 | | 2 | | P |
| Potassium | mg/Kg | 20 | 1180 | | 1130 | | 4 | | P |
| Selenium | mg/Kg | 20 | 1.04 | U | 0.99 | U | | | P |
| Silver | mg/Kg | 20 | 0.46 | J | 0.41 | J | 11 | | P |
| Sodium | mg/Kg | 20 | 104 | U | 99.4 | U | | | P |
| Thallium | mg/Kg | 20 | 2.07 | U | 1.99 | U | | | P |
| Vanadium | mg/Kg | 20 | 17.3 | | 16.8 | | 3 | | P |
| Zinc | mg/Kg | 20 | 188 | | 181 | | 4 | | 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:** Walsh Construction Company II, LLC **Level:** LOW **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Matrix:** Solid **Sample ID:** P4720-01MS **Client ID:** JC-701-COMP-01MSD

**Percent Solids for Sample:** 90.6 **Duplicate ID** P4720-01MSD **Percent Solids for Spike Sample:** 90.6

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | mg/Kg | 20 | 8270 | | 8640 | | 4 | | P |
| Antimony | mg/Kg | 20 | 30.4 | | 31.0 | | 2 | | P |
| Arsenic | mg/Kg | 20 | 34.5 | | 35.3 | | 2 | | P |
| Barium | mg/Kg | 20 | 162 | | 168 | | 4 | | P |
| Beryllium | mg/Kg | 20 | 7.23 | | 7.34 | | 2 | | P |
| Cadmium | mg/Kg | 20 | 11.5 | | 11.8 | | 3 | | P |
| Calcium | mg/Kg | 20 | 2660 | | 2740 | | 3 | | P |
| Chromium | mg/Kg | 20 | 25.5 | | 26.1 | | 2 | | P |
| Cobalt | mg/Kg | 20 | 16.7 | | 17.1 | | 2 | | P |
| Copper | mg/Kg | 20 | 32.5 | | 33.9 | | 4 | | P |
| Iron | mg/Kg | 20 | 12900 | | 13100 | | 2 | | P |
| Lead | mg/Kg | 20 | 233 | | 241 | | 3 | | P |
| Magnesium | mg/Kg | 20 | 2230 | | 2310 | | 4 | | P |
| Manganese | mg/Kg | 20 | 423 | | 434 | | 3 | | P |
| Nickel | mg/Kg | 20 | 35.8 | | 36.7 | | 2 | | P |
| Potassium | mg/Kg | 20 | 1400 | | 1430 | | 2 | | P |
| Selenium | mg/Kg | 20 | 71.4 | | 73.0 | | 2 | | P |
| Silver | mg/Kg | 20 | 3.21 | | 3.17 | | 1 | | P |
| Sodium | mg/Kg | 20 | 121 | | 121 | | 0 | | P |
| Thallium | mg/Kg | 20 | 92.6 | | 95.4 | | 3 | | P |
| Vanadium | mg/Kg | 20 | 26.7 | | 27.6 | | 3 | | P |
| Zinc | mg/Kg | 20 | 233 | | 239 | | 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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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB164723BS | | | | | | | |
| Aluminum | mg/Kg | 97.1 | 93.9 | | 97 | 80 - 120 | P |
| Antimony | mg/Kg | 38.8 | 38.5 | | 99 | 80 - 120 | P |
| Arsenic | mg/Kg | 38.8 | 38.8 | | 100 | 80 - 120 | P |
| Barium | mg/Kg | 9.7 | 9.04 | | 93 | 80 - 120 | P |
| Beryllium | mg/Kg | 9.7 | 9.07 | | 94 | 80 - 120 | P |
| Cadmium | mg/Kg | 9.7 | 8.92 | | 92 | 80 - 120 | P |
| Calcium | mg/Kg | 48.5 | 46.8 | J | 96 | 80 - 120 | P |
| Chromium | mg/Kg | 19.4 | 18.6 | | 96 | 80 - 120 | P |
| Cobalt | mg/Kg | 9.7 | 9.05 | | 93 | 80 - 120 | P |
| Copper | mg/Kg | 14.6 | 14.9 | | 102 | 80 - 120 | P |
| Iron | mg/Kg | 150 | 137 | | 91 | 80 - 120 | P |
| Lead | mg/Kg | 48.5 | 45.4 | | 94 | 80 - 120 | P |
| Magnesium | mg/Kg | 97.1 | 88.2 | J | 91 | 80 - 120 | P |
| Manganese | mg/Kg | 9.7 | 9.07 | | 94 | 80 - 120 | P |
| Nickel | mg/Kg | 24.3 | 22.7 | | 93 | 80 - 120 | P |
| Potassium | mg/Kg | 490 | 472 | | 96 | 80 - 120 | P |
| Selenium | mg/Kg | 97.1 | 97.9 | | 101 | 80 - 120 | P |
| Silver | mg/Kg | 3.6 | 3.52 | | 98 | 80 - 120 | P |
| Sodium | mg/Kg | 150 | 120 | | 80 | 80 - 120 | P |
| Thallium | mg/Kg | 97.1 | 104 | | 107 | 80 - 120 | P |
| Vanadium | mg/Kg | 14.6 | 13.8 | | 94 | 80 - 120 | P |
| Zinc | mg/Kg | 9.7 | 10.4 | | 108 | 80 - 120 | P |

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB164762BS | | | | | | | |
| Mercury | mg/Kg | 0.26 | 0.29 | | 110 | 80 - 120 | CV |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

TR-04-110424L

**Lab Name:** Chemtech Consulting Group **Contract:** WALS01

**Lab Code:** CHEM **Lb No.:** lb133334 **Lab Sample ID :** P4706-01L **SDG No.:** P4722

**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 | 0.060 | | 0.069 | U | 100.0 | | CV |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

JC-701-COMP-01L

**Lab Name:** Chemtech Consulting Group **Contract:** WALS01

**Lab Code:** CHEM **Lb No.:** lb133344 **Lab Sample ID :** P4720-01L **SDG No.:** P4722

**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 | 8600 | | 10500 | | 22 | | P |
| Antimony | 0.32 | J | 13.0 | U | 100.0 | | P |
| Arsenic | 4.31 | | 4.54 | J | 5 | | P |
| Barium | 158 | | 190 | | 21 | | P |
| Beryllium | 0.67 | | 0.93 | J | 38 | | P |
| Cadmium | 2.44 | | 1.91 | | 22 | | P |
| Calcium | 2790 | | 3560 | | 28 | | P |
| Chromium | 12.2 | | 19.1 | | 57 | | P |
| Cobalt | 7.68 | | 7.79 | | 1 | | P |
| Copper | 22.0 | | 29.9 | | 36 | | P |
| Iron | 13000 | | 16300 | | 25 | | P |
| Lead | 193 | | 208 | | 8 | | P |
| Magnesium | 2370 | | 2990 | | 26 | | P |
| Manganese | 420 | | 538 | | 28 | | P |
| Nickel | 13.3 | | 15.7 | | 18 | | P |
| Potassium | 1180 | | 1370 | | 16 | | P |
| Selenium | 1.04 | U | 5.18 | U | | | P |
| Silver | 0.46 | J | 0.64 | J | 39 | | P |
| Sodium | 104 | U | 518 | U | | | P |
| Thallium | 2.07 | U | 10.4 | U | | | P |
| Vanadium | 17.3 | | 21.8 | | 26 | | P |
| Zinc | 188 | | 245 | | 31 | | P |

# METAL PREPARATION & INSTRUMENT DATA

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Al | Ca | Fe | Mg | Ag |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | -0.0002060 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | -0.0000440 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000930 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | -0.0075970 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0007850 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | -0.0000920 | 0.0000000 | 0.0000380 | 0.0000000 | 0.0000000 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | -0.0001440 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | -0.0001490 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.402 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0001050 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: As | Ba | Be | Cd | Co |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0002870 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0009530 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0039600 |
| Lead | 220.353 | 0.0000000 | 0.0003170 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0003570 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0054900 |
| Vanadium | 292.402 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Cr | Cu | K | Mn | Mo |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000590 | 0.0000000 | 0.0396900 |
| Antimony | 206.833 | 0.0122000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | -0.0029000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0004900 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0000710 | -0.0003400 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000070 | 0.0002200 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0007860 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0006510 | 0.0020500 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000730 | 0.0000000 | -0.0015250 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001400 | -0.0008600 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0007460 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0000120 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0017400 | -0.0100400 |
| Vanadium | 292.402 | -0.0025100 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0072000 |
| Zinc | 213.800 | 0.0000000 | 0.0009010 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Na | Ni | Pb | Sb | Se |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0012800 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | -0.0047000 | 0.0036100 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | -0.0017000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0006580 | 0.0000000 | 0.0000000 | 0.0001290 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0003330 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.402 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0067600 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Sn | Ti | Tl | V | Zn |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | -0.0035600 | -0.0007970 | 0.0000000 | -0.0018900 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000630 | 0.0001280 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001110 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0018800 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | 0.0003840 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | -0.0003610 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | -0.0007420 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | -0.0039700 | 0.0000000 | -0.0115600 | 0.0000000 |
| Vanadium | 292.402 | 0.0000000 | 0.0005320 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

# METAL PREPARATION & ANALYICAL SUMMARY

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Method:**

**Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB164723** | | | | | | |
| P4720-01DUP | JC-701-COMP-01DUP | DUP | SOLID | 11/06/2024 | 2.22 | 100.0 | 90.60 |
| P4720-01MS | JC-701-COMP-01MS | MS | SOLID | 11/06/2024 | 2.27 | 100.0 | 90.60 |
| P4720-01MSD | JC-701-COMP-01MSD | MSD | SOLID | 11/06/2024 | 2.19 | 100.0 | 90.60 |
| P4722-03 | WC-1(0-6) | SAM | SOLID | 11/06/2024 | 2.38 | 100.0 | 93.80 |
| P4722-08 | WC-2(0-6) | SAM | SOLID | 11/06/2024 | 2.28 | 100.0 | 90.10 |
| P4722-13 | WC-3(0-6) | SAM | SOLID | 11/06/2024 | 2.37 | 100.0 | 86.60 |
| PB164723BL | PB164723BL | MB | SOLID | 11/06/2024 | 2.06 | 100.0 | 100.00 |
| PB164723BS | PB164723BS | LCS | SOLID | 11/06/2024 | 2.06 | 100.0 | 100.00 |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Method:**

**Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB164762** | | | | | | |
| P4706-01DUP | TR-04-110424DUP | DUP | SOLID | 11/07/2024 | 0.58 | 35.0 | 93.50 |
| P4706-01MS | TR-04-110424MS | MS | SOLID | 11/07/2024 | 0.55 | 35.0 | 93.50 |
| P4706-01MSD | TR-04-110424MSD | MSD | SOLID | 11/07/2024 | 0.53 | 35.0 | 93.50 |
| P4722-03 | WC-1(0-6) | SAM | SOLID | 11/07/2024 | 0.50 | 35.0 | 93.80 |
| P4722-08 | WC-2(0-6) | SAM | SOLID | 11/07/2024 | 0.53 | 35.0 | 90.10 |
| P4722-13 | WC-3(0-6) | SAM | SOLID | 11/07/2024 | 0.58 | 35.0 | 86.60 |
| PB164762BL | PB164762BL | MB | SOLID | 11/07/2024 | 0.52 | 35.0 | 100.00 |
| PB164762BS | PB164762BS | LCS | SOLID | 11/07/2024 | 0.54 | 35.0 | 100.00 |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** Walsh Construction Company II, LLC **Contract:** WALS01

**Lab code:** CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

**Instrument id number:** **Method:** **Run number:** LB133334

**Start date:** 11/07/2024 **End date:** 11/07/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1417 | HG |
| S0.2 | S0.2 | 1 | 1419 | HG |
| S2.5 | S2.5 | 1 | 1421 | HG |
| S5 | S5 | 1 | 1426 | HG |
| S7.5 | S7.5 | 1 | 1429 | HG |
| S10 | S10 | 1 | 1438 | HG |
| ICV74 | ICV74 | 1 | 1441 | HG |
| ICB74 | ICB74 | 1 | 1443 | HG |
| CCV47 | CCV47 | 1 | 1445 | HG |
| CCB47 | CCB47 | 1 | 1448 | HG |
| CRA | CRA | 1 | 1450 | HG |
| PB164762BL | PB164762BL | 1 | 1457 | HG |
| PB164762BS | PB164762BS | 1 | 1459 | HG |
| P4706-01MS | TR-04-110424MS | 1 | 1508 | HG |
| P4706-01MSD | TR-04-110424MSD | 1 | 1511 | HG |
| CCV48 | CCV48 | 1 | 1513 | HG |
| CCB48 | CCB48 | 1 | 1515 | HG |
| P4722-03 | WC-1(0-6) | 1 | 1531 | HG |
| P4722-08 | WC-2(0-6) | 1 | 1534 | HG |
| P4722-13 | WC-3(0-6) | 1 | 1536 | HG |
| CCV49 | CCV49 | 1 | 1540 | HG |
| CCB49 | CCB49 | 1 | 1543 | HG |
| P4706-01DUP | TR-04-110424DUP | 1 | 1601 | HG |
| P4706-01L | TR-04-110424L | 5 | 1603 | HG |
| CCV50 | CCV50 | 1 | 1608 | HG |
| CCB50 | CCB50 | 1 | 1610 | HG |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** Walsh Construction Company II, LLC **Contract:** WALS01

**Lab code:** CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

**Instrument id number:** **Method:** **Run number:** LB133344

**Start date:** 11/07/2024 **End date:** 11/08/2024

| 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 | 1332 | 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 | 1336 | 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 | 1340 | 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 | 1345 | 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 | 1349 | 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 | 1423 | 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 | 1438 | 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 | 1442 | 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 | 1447 | 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 | 1501 | 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 | 1505 | 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 | 1553 | 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 | 1558 | 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 | 1645 | 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 | 1649 | 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 | 1756 | 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 | 1804 | 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 | 1832 | 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 | 1837 | 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 | 1908 | 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 | 1912 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4720-01DUP | JC-701-COMP-01DUP | 1 | 1950 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4720-01L | JC-701-COMP-01L | 5 | 1954 | 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 | 1958 | 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 | 2002 | 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 | 2058 | 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 | 2102 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4720-01MS | JC-701-COMP-01MS | 1 | 2116 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4720-01MSD | JC-701-COMP-01MSD | 1 | 2120 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4720-01A | JC-701-COMP-01A | 1 | 2124 | Ag,Be,Cr,Cu,K,Se,V |
| P4722-03 | WC-1(0-6) | 1 | 2129 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4722-08 | WC-2(0-6) | 1 | 2133 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4722-13 | WC-3(0-6) | 1 | 2138 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB164723BL | PB164723BL | 1 | 2142 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB164723BS | PB164723BS | 1 | 2147 | 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 | 2151 | 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 | 2155 | 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 | 2252 | 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:** Walsh Construction Company II, LLC **Contract:** WALS01

**Lab code:** CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

**Instrument id number:** **Method:** **Run number:** LB133344

**Start date:** 11/07/2024 **End date:** 11/08/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| CCB10 | CCB10 | 1 | 2256 | 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 | 2343 | 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 | 2347 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4722-03 | WC-1(0-6) | 5 | 0026 | Fe |
| CCV12 | CCV12 | 1 | 0039 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB12 | CCB12 | 1 | 0043 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV13 | CCV13 | 1 | 0057 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB13 | CCB13 | 1 | 0101 | 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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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Mercury | 7471B | | 11/07/24 | 11/07/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/06/24 | 11/07/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/06/24 | 11/08/24 | |
| **P4722-04** | **WC-1(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP ICP Metals | 6010D | | 11/07/24 | 11/08/24 | |
| | | | TCLP Mercury | 7470A | | 11/07/24 | 11/08/24 | |
| **P4722-05** | **WC-1(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP ICP Metals | 6010D | | 11/11/24 | 11/14/24 | |
| | | | SPLP Mercury | 7470A | | 11/11/24 | 11/12/24 | |
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Mercury | 7471B | | 11/07/24 | 11/07/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/06/24 | 11/07/24 | |
| **P4722-09** | **WC-2(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP ICP Metals | 6010D | | 11/07/24 | 11/08/24 | |
| | | | TCLP Mercury | 7470A | | 11/07/24 | 11/08/24 | |
| **P4722-10** | **WC-2(0-6)** | **Water** | | | **11/05/24** | | | **11/05/24** |
| | | | SPLP ICP Metals | 6010D | | 11/11/24 | 11/14/24 | |
| | | | SPLP Mercury | 7470A | | 11/11/24 | 11/12/24 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24** | | | **11/05/24** |
| | | | Mercury | 7471B | | 11/07/24 | 11/07/24 | |
| | | | Metals ICP-TAL | 6010D | | 11/06/24 | 11/07/24 | |
| **P4722-14** | **WC-3(0-6)** | **TCLP** | | | **11/05/24** | | | **11/05/24** |
| | | | TCLP ICP Metals | 6010D | | 11/07/24 | 11/08/24 | |
| | | | TCLP Mercury | 7470A | | 11/07/24 | 11/08/24 | |

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# LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **P4722-15** | **WC-3(0-6)** | **Water** | | | **11/05/24** | | **11/05/24** |
| | | | SPLP ICP Metals | 6010D | | 11/11/24 | 11/14/24 |
| | | | SPLP Mercury | 7470A | | 11/11/24 | 11/12/24 |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722 **Order ID:** P4722

**Client:** Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B-1 S

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : WC-1(0-6)** | | | | | | | | |
| P4722-05 | WC-1(0-6) | Water | Aluminum | 155 | | 28.3 | 50.0 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Antimony | 3.34 | J | 2.06 | 25.0 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Barium | 109 | | 6.28 | 50.0 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Cadmium | 0.21 | J | 0.094 | 3.00 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Calcium | 158000 | | 33.0 | 1000 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Chromium | 4.63 | J | 0.66 | 5.00 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Cobalt | 1.75 | J | 0.50 | 15.0 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Copper | 7.87 | J | 7.07 | 10.0 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Iron | 363 | | 18.5 | 50.0 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Lead | 6.83 | | 3.51 | 6.00 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Magnesium | 6200 | | 39.4 | 1000 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Manganese | 321 | | 1.46 | 10.0 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Nickel | 2.99 | J | 0.85 | 20.0 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Potassium | 4180 | | 685 | 1000 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Sodium | 10400 | | 237 | 1000 | ug/L |
| P4722-05 | WC-1(0-6) | Water | Zinc | 67.9 | | 1.75 | 20.0 | ug/L |
| **Client ID : WC-2(0-6)** | | | | | | | | |
| P4722-10 | WC-2(0-6) | Water | Antimony | 3.41 | J | 2.06 | 25.0 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Barium | 77.7 | | 6.28 | 50.0 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Cadmium | 0.32 | J | 0.094 | 3.00 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Calcium | 144000 | | 33.0 | 1000 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Chromium | 2.26 | J | 0.66 | 5.00 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Copper | 8.17 | J | 7.07 | 10.0 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Iron | 38.2 | J | 18.5 | 50.0 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Lead | 14.2 | | 3.51 | 6.00 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Magnesium | 3820 | | 39.4 | 1000 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Manganese | 14.7 | | 1.46 | 10.0 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Nickel | 1.21 | J | 0.85 | 20.0 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Potassium | 3270 | | 685 | 1000 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Sodium | 17300 | | 237 | 1000 | ug/L |
| P4722-10 | WC-2(0-6) | Water | Zinc | 157 | | 1.75 | 20.0 | ug/L |
| **Client ID : WC-3(0-6)** | | | | | | | | |
| P4722-15 | WC-3(0-6) | Water | Aluminum | 29.5 | J | 28.3 | 50.0 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Antimony | 2.70 | J | 2.06 | 25.0 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Barium | 76.6 | | 6.28 | 50.0 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Cadmium | 0.32 | J | 0.094 | 3.00 | ug/L |

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Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722 **Order ID:** P4722

**Client:** Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B-1 S

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| P4722-15 | WC-3(0-6) | Water | Calcium | 167000 | | 33.0 | 1000 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Chromium | 1.28 | J | 0.66 | 5.00 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Copper | 10.4 | | 7.07 | 10.0 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Iron | 96.2 | | 18.5 | 50.0 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Lead | 12.8 | | 3.51 | 6.00 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Magnesium | 6910 | | 39.4 | 1000 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Manganese | 21.7 | | 1.46 | 10.0 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Nickel | 3.85 | J | 0.85 | 20.0 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Potassium | 3330 | | 685 | 1000 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Sodium | 19600 | | 237 | 1000 | ug/L |
| P4722-15 | WC-3(0-6) | Water | Zinc | 55.1 | | 1.75 | 20.0 | ug/L |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P4722 **Order ID:** P4722

**Client:** Walsh Construction Company II, LLC **Project ID:** NYCDEP C547A - Shafts 17B-1 & 18B-1 S

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : WC-1(0-6)** | | | | | | | | |
| P4722-04 | WC-1(0-6) | TCLP | Barium | 992 | | 62.8 | 500 | ug/L |
| P4722-04 | WC-1(0-6) | TCLP | Cadmium | 9.53 | J | 0.94 | 30.0 | ug/L |
| P4722-04 | WC-1(0-6) | TCLP | Lead | 1170 | | 35.1 | 60.0 | ug/L |
| **Client ID : WC-2(0-6)** | | | | | | | | |
| P4722-09 | WC-2(0-6) | TCLP | Barium | 742 | | 62.8 | 500 | ug/L |
| P4722-09 | WC-2(0-6) | TCLP | Cadmium | 8.24 | J | 0.94 | 30.0 | ug/L |
| P4722-09 | WC-2(0-6) | TCLP | Lead | 921 | | 35.1 | 60.0 | ug/L |
| **Client ID : WC-3(0-6)** | | | | | | | | |
| P4722-14 | WC-3(0-6) | TCLP | Barium | 594 | | 62.8 | 500 | ug/L |
| P4722-14 | WC-3(0-6) | TCLP | Cadmium | 20.6 | J | 0.94 | 30.0 | ug/L |
| P4722-14 | WC-3(0-6) | TCLP | Lead | 487 | | 35.1 | 60.0 | ug/L |

# SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-04 | Matrix: | TCLP |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 34.8 | U | 1 | 34.8 | 100 | ug/L | 11/07/24 12:30 | 11/08/24 16:06 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 992 | N | 1 | 62.8 | 500 | ug/L | 11/07/24 12:30 | 11/08/24 16:06 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 9.53 | J | 1 | 0.94 | 30.0 | ug/L | 11/07/24 12:30 | 11/08/24 16:06 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 6.60 | U | 1 | 6.60 | 50.0 | ug/L | 11/07/24 12:30 | 11/08/24 16:06 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 1170 | | 1 | 35.1 | 60.0 | ug/L | 11/07/24 12:30 | 11/08/24 16:06 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.81 | U | 1 | 0.81 | 2.00 | ug/L | 11/07/24 11:50 | 11/08/24 11:00 | SW7470A | |
| 7782-49-2 | Selenium | 58.8 | U | 1 | 58.8 | 100 | ug/L | 11/07/24 12:30 | 11/08/24 16:06 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 5.80 | U | 1 | 5.80 | 50.0 | ug/L | 11/07/24 12:30 | 11/08/24 16:06 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | TCLP METALS | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-05 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 155 | | 1 | 28.3 | 50.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-36-0 | Antimony | 3.34 | J | 1 | 2.06 | 25.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-38-2 | Arsenic | 3.48 | U | 1 | 3.48 | 10.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-39-3 | Barium | 109 | | 1 | 6.28 | 50.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-41-7 | Beryllium | 0.13 | U | 1 | 0.13 | 3.00 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-43-9 | Cadmium | 0.21 | J | 1 | 0.094 | 3.00 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-70-2 | Calcium | 158000 | | 1 | 33.0 | 1000 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-47-3 | Chromium | 4.63 | J | 1 | 0.66 | 5.00 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-48-4 | Cobalt | 1.75 | J | 1 | 0.50 | 15.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-50-8 | Copper | 7.87 | J | 1 | 7.07 | 10.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7439-89-6 | Iron | 363 | | 1 | 18.5 | 50.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7439-92-1 | Lead | 6.83 | | 1 | 3.51 | 6.00 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7439-95-4 | Magnesium | 6200 | | 1 | 39.4 | 1000 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7439-96-5 | Manganese | 321 | | 1 | 1.46 | 10.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7439-97-6 | Mercury | 0.081 | U | 1 | 0.081 | 0.20 | ug/L | 11/11/24 16:33 | 11/12/24 14:53 | SW7470A | |
| 7440-02-0 | Nickel | 2.99 | J | 1 | 0.85 | 20.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-09-7 | Potassium | 4180 | | 1 | 685 | 1000 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7782-49-2 | Selenium | 5.88 | U | 1 | 5.88 | 10.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-22-4 | Silver | 0.58 | U | 1 | 0.58 | 5.00 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-23-5 | Sodium | 10400 | | 1 | 237 | 1000 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-28-0 | Thallium | 2.32 | U | 1 | 2.32 | 20.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-62-2 | Vanadium | 3.06 | U | 1 | 3.06 | 20.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |
| 7440-66-6 | Zinc | 67.9 | | 1 | 1.75 | 20.0 | ug/L | 11/11/24 10:30 | 11/14/24 18:58 | SW6010 | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | SPLP ICP Metals | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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* = indicates the duplicate analysis is not within control limits.
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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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-09 | Matrix: | TCLP |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 34.8 | U | 1 | 34.8 | 100 | ug/L | 11/07/24 12:30 | 11/08/24 16:10 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 742 | N | 1 | 62.8 | 500 | ug/L | 11/07/24 12:30 | 11/08/24 16:10 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 8.24 | J | 1 | 0.94 | 30.0 | ug/L | 11/07/24 12:30 | 11/08/24 16:10 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 6.60 | U | 1 | 6.60 | 50.0 | ug/L | 11/07/24 12:30 | 11/08/24 16:10 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 921 | | 1 | 35.1 | 60.0 | ug/L | 11/07/24 12:30 | 11/08/24 16:10 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.81 | U | 1 | 0.81 | 2.00 | ug/L | 11/07/24 11:50 | 11/08/24 11:03 | SW7470A | |
| 7782-49-2 | Selenium | 58.8 | U | 1 | 58.8 | 100 | ug/L | 11/07/24 12:30 | 11/08/24 16:10 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 5.80 | U | 1 | 5.80 | 50.0 | ug/L | 11/07/24 12:30 | 11/08/24 16:10 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | TCLP METALS | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-10 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 28.3 | U | 1 | 28.3 | 50.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-36-0 | Antimony | 3.41 | J | 1 | 2.06 | 25.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-38-2 | Arsenic | 3.48 | U | 1 | 3.48 | 10.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-39-3 | Barium | 77.7 | | 1 | 6.28 | 50.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-41-7 | Beryllium | 0.13 | U | 1 | 0.13 | 3.00 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-43-9 | Cadmium | 0.32 | J | 1 | 0.094 | 3.00 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-70-2 | Calcium | 144000 | | 1 | 33.0 | 1000 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-47-3 | Chromium | 2.26 | J | 1 | 0.66 | 5.00 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-48-4 | Cobalt | 0.50 | U | 1 | 0.50 | 15.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-50-8 | Copper | 8.17 | J | 1 | 7.07 | 10.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7439-89-6 | Iron | 38.2 | J | 1 | 18.5 | 50.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7439-92-1 | Lead | 14.2 | | 1 | 3.51 | 6.00 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7439-95-4 | Magnesium | 3820 | | 1 | 39.4 | 1000 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7439-96-5 | Manganese | 14.7 | | 1 | 1.46 | 10.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7439-97-6 | Mercury | 0.081 | U | 1 | 0.081 | 0.20 | ug/L | 11/11/24 16:33 | 11/12/24 14:56 | SW7470A | |
| 7440-02-0 | Nickel | 1.21 | J | 1 | 0.85 | 20.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-09-7 | Potassium | 3270 | | 1 | 685 | 1000 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7782-49-2 | Selenium | 5.88 | U | 1 | 5.88 | 10.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-22-4 | Silver | 0.58 | U | 1 | 0.58 | 5.00 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-23-5 | Sodium | 17300 | | 1 | 237 | 1000 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-28-0 | Thallium | 2.32 | U | 1 | 2.32 | 20.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-62-2 | Vanadium | 3.06 | U | 1 | 3.06 | 20.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |
| 7440-66-6 | Zinc | 157 | | 1 | 1.75 | 20.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:11 | SW6010 | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | SPLP ICP Metals | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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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: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-14 | Matrix: | TCLP |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 34.8 | U | 1 | 34.8 | 100 | ug/L | 11/07/24 12:30 | 11/08/24 16:15 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 594 | N | 1 | 62.8 | 500 | ug/L | 11/07/24 12:30 | 11/08/24 16:15 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 20.6 | J | 1 | 0.94 | 30.0 | ug/L | 11/07/24 12:30 | 11/08/24 16:15 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 6.60 | U | 1 | 6.60 | 50.0 | ug/L | 11/07/24 12:30 | 11/08/24 16:15 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 487 | | 1 | 35.1 | 60.0 | ug/L | 11/07/24 12:30 | 11/08/24 16:15 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 0.81 | U | 1 | 0.81 | 2.00 | ug/L | 11/07/24 11:50 | 11/08/24 11:05 | SW7470A | |
| 7782-49-2 | Selenium | 58.8 | U | 1 | 58.8 | 100 | ug/L | 11/07/24 12:30 | 11/08/24 16:15 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 5.80 | U | 1 | 5.80 | 50.0 | ug/L | 11/07/24 12:30 | 11/08/24 16:15 | SW6010 | SW3050 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | TCLP METALS | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-15 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 29.5 | J | 1 | 28.3 | 50.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-36-0 | Antimony | 2.70 | J | 1 | 2.06 | 25.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-38-2 | Arsenic | 3.48 | U | 1 | 3.48 | 10.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-39-3 | Barium | 76.6 | | 1 | 6.28 | 50.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-41-7 | Beryllium | 0.13 | U | 1 | 0.13 | 3.00 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-43-9 | Cadmium | 0.32 | J | 1 | 0.094 | 3.00 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-70-2 | Calcium | 167000 | | 1 | 33.0 | 1000 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-47-3 | Chromium | 1.28 | J | 1 | 0.66 | 5.00 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-48-4 | Cobalt | 0.50 | U | 1 | 0.50 | 15.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-50-8 | Copper | 10.4 | | 1 | 7.07 | 10.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7439-89-6 | Iron | 96.2 | | 1 | 18.5 | 50.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7439-92-1 | Lead | 12.8 | | 1 | 3.51 | 6.00 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7439-95-4 | Magnesium | 6910 | | 1 | 39.4 | 1000 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7439-96-5 | Manganese | 21.7 | | 1 | 1.46 | 10.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7439-97-6 | Mercury | 0.081 | U | 1 | 0.081 | 0.20 | ug/L | 11/11/24 16:33 | 11/12/24 14:58 | SW7470A | |
| 7440-02-0 | Nickel | 3.85 | J | 1 | 0.85 | 20.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-09-7 | Potassium | 3330 | | 1 | 685 | 1000 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7782-49-2 | Selenium | 5.88 | U | 1 | 5.88 | 10.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-22-4 | Silver | 0.58 | U | 1 | 0.58 | 5.00 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-23-5 | Sodium | 19600 | | 1 | 237 | 1000 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-28-0 | Thallium | 2.32 | U | 1 | 2.32 | 20.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-62-2 | Vanadium | 3.06 | U | 1 | 3.06 | 20.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |
| 7440-66-6 | Zinc | 55.1 | | 1 | 1.75 | 20.0 | ug/L | 11/11/24 10:30 | 11/14/24 19:16 | SW6010 | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | SPLP ICP Metals | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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J = Estimated Value
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OR = Over Range
N =Spiked sample recovery not within control limits

# METAL CALIBRATION DATA

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

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 |
|---|---|---|---|---|---|---|---|---|---|
| ICV83 | Mercury | 4.00 | 4.0 | 100 | 90 - 110 | CV | 11/12/2024 | 14:17 | LB133407 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV75 | Mercury | 4.87 | 5.0 | 97 | 90 - 110 | CV | 11/12/2024 | 14:27 | LB133407 |
| CCV76 | Mercury | 5.10 | 5.0 | 102 | 90 - 110 | CV | 11/12/2024 | 15:05 | LB133407 |
| CCV77 | Mercury | 5.31 | 5.0 | 106 | 90 - 110 | CV | 11/12/2024 | 15:32 | LB133407 |
| CCV78 | Mercury | 4.53 | 5.0 | 91 | 90 - 110 | CV | 11/12/2024 | 15:59 | LB133407 |
| CCV79 | Mercury | 4.71 | 5.0 | 94 | 90 - 110 | CV | 11/12/2024 | 16:25 | LB133407 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 2580 | 2500 | 103 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Antimony | 1000 | 1000 | 100 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Arsenic | 1040 | 1000 | 104 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Barium | 520 | 520 | 100 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Beryllium | 521 | 510 | 102 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Cadmium | 508 | 510 | 100 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Calcium | 10300 | 10000 | 103 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Chromium | 533 | 520 | 102 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Cobalt | 516 | 520 | 99 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Copper | 532 | 510 | 104 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Iron | 9960 | 10000 | 100 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Lead | 1020 | 1000 | 102 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Magnesium | 6020 | 6000 | 100 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Manganese | 526 | 520 | 101 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Nickel | 520 | 530 | 98 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Potassium | 9810 | 9900 | 99 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Selenium | 1040 | 1000 | 104 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Silver | 255 | 250 | 102 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Sodium | 9490 | 10000 | 95 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Thallium | 1060 | 1000 | 106 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Vanadium | 507 | 500 | 102 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |
| | Zinc | 1050 | 1000 | 105 | 90 - 110 | P | 11/14/2024 | 13:58 | LB133457 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 94.9 | 100 | 95 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Antimony | 45.5 | 50.0 | 91 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Arsenic | 20.1 | 20.0 | 101 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Barium | 94.7 | 100 | 95 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Beryllium | 5.56 | 6.0 | 93 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Cadmium | 6.49 | 6.0 | 108 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Calcium | 1920 | 2000 | 96 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Chromium | 9.23 | 10.0 | 92 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Cobalt | 27.6 | 30.0 | 92 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Copper | 20.5 | 20.0 | 103 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Iron | 93.0 | 100 | 93 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Lead | 10.8 | 12.0 | 90 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Magnesium | 1910 | 2000 | 96 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Manganese | 19.5 | 20.0 | 98 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Nickel | 36.5 | 40.0 | 91 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Potassium | 1780 | 2000 | 89 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Selenium | 17.4 | 20.0 | 87 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Silver | 9.68 | 10.0 | 97 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Sodium | 1600 | 2000 | 80 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Thallium | 37.7 | 40.0 | 94 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Vanadium | 37.6 | 40.0 | 94 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |
| | Zinc | 40.3 | 40.0 | 101 | 80 - 120 | P | 11/14/2024 | 14:10 | LB133457 |

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

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 10200 | 10000 | 102 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Antimony | 5080 | 5000 | 102 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Arsenic | 5030 | 5000 | 100 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Barium | 10200 | 10000 | 102 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Beryllium | 251 | 250 | 100 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Cadmium | 2490 | 2500 | 100 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Calcium | 25200 | 25000 | 101 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Cobalt | 2490 | 2500 | 100 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Copper | 1270 | 1250 | 102 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Iron | 5030 | 5000 | 101 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Lead | 4980 | 5000 | 100 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Magnesium | 25400 | 25000 | 102 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Manganese | 2490 | 2500 | 100 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Nickel | 2500 | 2500 | 100 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Potassium | 25400 | 25000 | 102 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Selenium | 5080 | 5000 | 102 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Sodium | 25600 | 25000 | 102 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Thallium | 4990 | 5000 | 100 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Vanadium | 2530 | 2500 | 101 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| | Zinc | 2560 | 2500 | 103 | 90 - 110 | P | 11/14/2024 | 15:22 | LB133457 |
| CCV02 | Aluminum | 9350 | 10000 | 94 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Antimony | 4690 | 5000 | 94 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Arsenic | 4660 | 5000 | 93 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Barium | 9380 | 10000 | 94 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Beryllium | 238 | 250 | 95 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Cadmium | 2340 | 2500 | 94 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Calcium | 23500 | 25000 | 94 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Chromium | 952 | 1000 | 95 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Cobalt | 2340 | 2500 | 93 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Copper | 1180 | 1250 | 95 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Iron | 4670 | 5000 | 94 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Lead | 4680 | 5000 | 94 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 23300 | 25000 | 93 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Manganese | 2350 | 2500 | 94 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Nickel | 2340 | 2500 | 94 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Potassium | 23000 | 25000 | 92 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Selenium | 4660 | 5000 | 93 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Silver | 1180 | 1250 | 94 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Sodium | 23400 | 25000 | 93 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Thallium | 4730 | 5000 | 94 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Vanadium | 2340 | 2500 | 94 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| | Zinc | 2370 | 2500 | 95 | 90 - 110 | P | 11/14/2024 | 15:35 | LB133457 |
| CCV03 | Aluminum | 9840 | 10000 | 98 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Antimony | 5140 | 5000 | 103 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Arsenic | 5110 | 5000 | 102 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Barium | 9600 | 10000 | 96 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Beryllium | 245 | 250 | 98 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Cadmium | 2540 | 2500 | 102 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Calcium | 24300 | 25000 | 97 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Cobalt | 2540 | 2500 | 102 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Copper | 1300 | 1250 | 104 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Iron | 4940 | 5000 | 99 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Lead | 5090 | 5000 | 102 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Magnesium | 24200 | 25000 | 97 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Manganese | 2400 | 2500 | 96 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Nickel | 2550 | 2500 | 102 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Potassium | 24700 | 25000 | 99 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Selenium | 5130 | 5000 | 103 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Sodium | 24700 | 25000 | 99 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Thallium | 5050 | 5000 | 101 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Vanadium | 2450 | 2500 | 98 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| | Zinc | 2540 | 2500 | 102 | 90 - 110 | P | 11/14/2024 | 16:27 | LB133457 |
| CCV04 | Aluminum | 9510 | 10000 | 95 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Antimony | 4720 | 5000 | 94 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 4730 | 5000 | 94 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Barium | 9470 | 10000 | 95 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Beryllium | 243 | 250 | 97 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Cadmium | 2380 | 2500 | 95 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Calcium | 23900 | 25000 | 96 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Chromium | 962 | 1000 | 96 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Cobalt | 2380 | 2500 | 95 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Copper | 1190 | 1250 | 95 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Iron | 4720 | 5000 | 94 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Lead | 4770 | 5000 | 95 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Magnesium | 23700 | 25000 | 95 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Manganese | 2370 | 2500 | 95 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Nickel | 2390 | 2500 | 95 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Potassium | 23200 | 25000 | 93 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Selenium | 4710 | 5000 | 94 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Silver | 1190 | 1250 | 95 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Sodium | 23500 | 25000 | 94 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Thallium | 4920 | 5000 | 98 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Vanadium | 2380 | 2500 | 95 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| | Zinc | 2410 | 2500 | 96 | 90 - 110 | P | 11/14/2024 | 17:23 | LB133457 |
| CCV05 | Aluminum | 9910 | 10000 | 99 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Antimony | 4890 | 5000 | 98 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Arsenic | 4900 | 5000 | 98 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Barium | 9970 | 10000 | 100 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Beryllium | 253 | 250 | 101 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Cadmium | 2470 | 2500 | 99 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Calcium | 24900 | 25000 | 100 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Chromium | 996 | 1000 | 100 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Cobalt | 2470 | 2500 | 99 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Copper | 1240 | 1250 | 99 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Iron | 4940 | 5000 | 99 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Lead | 4960 | 5000 | 99 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Magnesium | 24400 | 25000 | 98 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Manganese | 2490 | 2500 | 100 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 2480 | 2500 | 99 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Potassium | 24300 | 25000 | 97 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Selenium | 4860 | 5000 | 97 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Sodium | 24800 | 25000 | 99 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Thallium | 4930 | 5000 | 99 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Vanadium | 2480 | 2500 | 99 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| | Zinc | 2500 | 2500 | 100 | 90 - 110 | P | 11/14/2024 | 18:12 | LB133457 |
| CCV06 | Aluminum | 9670 | 10000 | 97 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Antimony | 4750 | 5000 | 95 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Arsenic | 4770 | 5000 | 95 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Barium | 9920 | 10000 | 99 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Beryllium | 250 | 250 | 100 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Cadmium | 2400 | 2500 | 96 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Calcium | 24500 | 25000 | 98 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Chromium | 971 | 1000 | 97 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Cobalt | 2400 | 2500 | 96 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Copper | 1210 | 1250 | 96 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Iron | 4840 | 5000 | 97 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Lead | 4820 | 5000 | 96 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Magnesium | 23900 | 25000 | 95 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Manganese | 2460 | 2500 | 98 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Nickel | 2410 | 2500 | 96 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Potassium | 23800 | 25000 | 95 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Selenium | 4720 | 5000 | 94 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Silver | 1210 | 1250 | 97 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Sodium | 25000 | 25000 | 100 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Thallium | 4960 | 5000 | 99 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Vanadium | 2430 | 2500 | 97 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| | Zinc | 2420 | 2500 | 97 | 90 - 110 | P | 11/14/2024 | 19:03 | LB133457 |
| CCV07 | Aluminum | 9690 | 10000 | 97 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Antimony | 4850 | 5000 | 97 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Arsenic | 4840 | 5000 | 97 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Barium | 9800 | 10000 | 98 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 247 | 250 | 99 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Cadmium | 2420 | 2500 | 97 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Calcium | 24300 | 25000 | 97 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Chromium | 980 | 1000 | 98 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Cobalt | 2420 | 2500 | 97 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Copper | 1230 | 1250 | 98 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Iron | 4820 | 5000 | 96 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Lead | 4850 | 5000 | 97 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Magnesium | 23800 | 25000 | 95 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Manganese | 2420 | 2500 | 97 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Nickel | 2420 | 2500 | 97 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Potassium | 24000 | 25000 | 96 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Selenium | 4850 | 5000 | 97 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Silver | 1220 | 1250 | 97 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Sodium | 25300 | 25000 | 101 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Thallium | 4990 | 5000 | 100 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Vanadium | 2430 | 2500 | 97 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| | Zinc | 2450 | 2500 | 98 | 90 - 110 | P | 11/14/2024 | 19:55 | LB133457 |
| CCV08 | Aluminum | 9850 | 10000 | 98 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Antimony | 4950 | 5000 | 99 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Arsenic | 4920 | 5000 | 98 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Barium | 9680 | 10000 | 97 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Beryllium | 245 | 250 | 98 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Cadmium | 2450 | 2500 | 98 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Calcium | 24200 | 25000 | 97 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Cobalt | 2450 | 2500 | 98 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Iron | 4860 | 5000 | 97 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Lead | 4900 | 5000 | 98 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Magnesium | 24100 | 25000 | 96 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Manganese | 2380 | 2500 | 95 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Nickel | 2450 | 2500 | 98 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Potassium | 24600 | 25000 | 98 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 4960 | 5000 | 99 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Silver | 1230 | 1250 | 99 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Sodium | 25500 | 25000 | 102 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Thallium | 4920 | 5000 | 98 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Vanadium | 2440 | 2500 | 98 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| | Zinc | 2500 | 2500 | 100 | 90 - 110 | P | 11/14/2024 | 20:47 | LB133457 |
| CCV09 | Aluminum | 9700 | 10000 | 97 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Antimony | 4760 | 5000 | 95 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Arsenic | 4790 | 5000 | 96 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Barium | 9850 | 10000 | 98 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Beryllium | 248 | 250 | 99 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Cadmium | 2420 | 2500 | 97 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Calcium | 24500 | 25000 | 98 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Chromium | 980 | 1000 | 98 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Cobalt | 2410 | 2500 | 96 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Copper | 1220 | 1250 | 98 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Iron | 4900 | 5000 | 98 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Lead | 4830 | 5000 | 97 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Magnesium | 23900 | 25000 | 96 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Manganese | 2450 | 2500 | 98 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Nickel | 2420 | 2500 | 97 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Potassium | 24300 | 25000 | 97 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Selenium | 4760 | 5000 | 95 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Silver | 1210 | 1250 | 97 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Sodium | 25200 | 25000 | 101 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Thallium | 4880 | 5000 | 98 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Vanadium | 2440 | 2500 | 98 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| | Zinc | 2440 | 2500 | 98 | 90 - 110 | P | 11/14/2024 | 22:04 | LB133457 |
| CCV10 | Aluminum | 9610 | 10000 | 96 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Antimony | 4780 | 5000 | 96 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Arsenic | 4790 | 5000 | 96 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Barium | 9850 | 10000 | 98 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Beryllium | 245 | 250 | 98 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Cadmium | 2400 | 2500 | 96 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 | 24000 | 25000 | 96 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Chromium | 974 | 1000 | 97 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Cobalt | 2400 | 2500 | 96 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Copper | 1220 | 1250 | 98 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Iron | 4860 | 5000 | 97 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Lead | 4800 | 5000 | 96 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Magnesium | 23200 | 25000 | 93 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Manganese | 2430 | 2500 | 97 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Nickel | 2410 | 2500 | 96 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Potassium | 24400 | 25000 | 98 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Selenium | 4740 | 5000 | 95 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Silver | 1220 | 1250 | 97 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Sodium | 25200 | 25000 | 101 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Thallium | 4850 | 5000 | 97 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Vanadium | 2420 | 2500 | 97 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |
| | Zinc | 2710 | 2500 | 109 | 90 - 110 | P | 11/14/2024 | 22:58 | LB133457 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 |
|---|---|---|---|---|---|---|---|---|---|
| ICV75 | Mercury | 3.66 | 4.0 | 92 | 90 - 110 | CV | 11/08/2024 | 10:19 | LB133352 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CCV51 | Mercury | 5.08 | 5.0 | 102 | 90 - 110 | CV | 11/08/2024 | 10:23 | LB133352 |
| CCV52 | Mercury | 4.97 | 5.0 | 99 | 90 - 110 | CV | 11/08/2024 | 10:53 | LB133352 |
| CCV53 | Mercury | 4.67 | 5.0 | 93 | 90 - 110 | CV | 11/08/2024 | 11:21 | LB133352 |
| CCV54 | Mercury | 4.56 | 5.0 | 91 | 90 - 110 | CV | 11/08/2024 | 11:32 | LB133352 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Arsenic | 1000 | 1000 | 100 | 90 - 110 | P | 11/08/2024 | 13:59 | LB133365 |
| | Barium | 513 | 520 | 99 | 90 - 110 | P | 11/08/2024 | 13:59 | LB133365 |
| | Cadmium | 497 | 510 | 97 | 90 - 110 | P | 11/08/2024 | 13:59 | LB133365 |
| | Chromium | 514 | 520 | 99 | 90 - 110 | P | 11/08/2024 | 13:59 | LB133365 |
| | Lead | 999 | 1000 | 100 | 90 - 110 | P | 11/08/2024 | 13:59 | LB133365 |
| | Selenium | 1000 | 1000 | 100 | 90 - 110 | P | 11/08/2024 | 13:59 | LB133365 |
| | Silver | 251 | 250 | 100 | 90 - 110 | P | 11/08/2024 | 13:59 | LB133365 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Arsenic | 19.5 | 20.0 | 98 | 80 - 120 | P | 11/08/2024 | 14:11 | LB133365 |
| | Barium | 95.3 | 100 | 95 | 80 - 120 | P | 11/08/2024 | 14:11 | LB133365 |
| | Cadmium | 6.34 | 6.0 | 106 | 80 - 120 | P | 11/08/2024 | 14:11 | LB133365 |
| | Chromium | 9.48 | 10.0 | 95 | 80 - 120 | P | 11/08/2024 | 14:11 | LB133365 |
| | Lead | 11.8 | 12.0 | 99 | 80 - 120 | P | 11/08/2024 | 14:11 | LB133365 |
| | Selenium | 20.6 | 20.0 | 103 | 80 - 120 | P | 11/08/2024 | 14:11 | LB133365 |
| | Silver | 10.6 | 10.0 | 106 | 80 - 120 | P | 11/08/2024 | 14:11 | LB133365 |

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Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Arsenic | 4950 | 5000 | 99 | 90 - 110 | P | 11/08/2024 | 14:44 | LB133365 |
| | Barium | 9530 | 10000 | 95 | 90 - 110 | P | 11/08/2024 | 14:44 | LB133365 |
| | Cadmium | 2390 | 2500 | 96 | 90 - 110 | P | 11/08/2024 | 14:44 | LB133365 |
| | Chromium | 1050 | 1000 | 105 | 90 - 110 | P | 11/08/2024 | 14:44 | LB133365 |
| | Lead | 4870 | 5000 | 97 | 90 - 110 | P | 11/08/2024 | 14:44 | LB133365 |
| | Selenium | 5020 | 5000 | 100 | 90 - 110 | P | 11/08/2024 | 14:44 | LB133365 |
| | Silver | 1230 | 1250 | 99 | 90 - 110 | P | 11/08/2024 | 14:44 | LB133365 |
| CCV02 | Arsenic | 4950 | 5000 | 99 | 90 - 110 | P | 11/08/2024 | 15:29 | LB133365 |
| | Barium | 9460 | 10000 | 95 | 90 - 110 | P | 11/08/2024 | 15:29 | LB133365 |
| | Cadmium | 2360 | 2500 | 94 | 90 - 110 | P | 11/08/2024 | 15:29 | LB133365 |
| | Chromium | 918 | 1000 | 92 | 90 - 110 | P | 11/08/2024 | 15:29 | LB133365 |
| | Lead | 4800 | 5000 | 96 | 90 - 110 | P | 11/08/2024 | 15:29 | LB133365 |
| | Selenium | 5080 | 5000 | 102 | 90 - 110 | P | 11/08/2024 | 15:29 | LB133365 |
| | Silver | 1230 | 1250 | 98 | 90 - 110 | P | 11/08/2024 | 15:29 | LB133365 |
| CCV03 | Arsenic | 4980 | 5000 | 100 | 90 - 110 | P | 11/08/2024 | 16:23 | LB133365 |
| | Barium | 9610 | 10000 | 96 | 90 - 110 | P | 11/08/2024 | 16:23 | LB133365 |
| | Cadmium | 2380 | 2500 | 95 | 90 - 110 | P | 11/08/2024 | 16:23 | LB133365 |
| | Chromium | 930 | 1000 | 93 | 90 - 110 | P | 11/08/2024 | 16:23 | LB133365 |
| | Lead | 4840 | 5000 | 97 | 90 - 110 | P | 11/08/2024 | 16:23 | LB133365 |
| | Selenium | 5130 | 5000 | 103 | 90 - 110 | P | 11/08/2024 | 16:23 | LB133365 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 11/08/2024 | 16:23 | LB133365 |
| CCV04 | Arsenic | 5190 | 5000 | 104 | 90 - 110 | P | 11/08/2024 | 17:16 | LB133365 |
| | Barium | 9360 | 10000 | 94 | 90 - 110 | P | 11/08/2024 | 17:16 | LB133365 |
| | Cadmium | 2420 | 2500 | 97 | 90 - 110 | P | 11/08/2024 | 17:16 | LB133365 |
| | Chromium | 927 | 1000 | 93 | 90 - 110 | P | 11/08/2024 | 17:16 | LB133365 |
| | Lead | 4940 | 5000 | 99 | 90 - 110 | P | 11/08/2024 | 17:16 | LB133365 |
| | Selenium | 5360 | 5000 | 107 | 90 - 110 | P | 11/08/2024 | 17:16 | LB133365 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 11/08/2024 | 17:16 | LB133365 |
| CCV05 | Arsenic | 5110 | 5000 | 102 | 90 - 110 | P | 11/08/2024 | 18:04 | LB133365 |
| | Barium | 9290 | 10000 | 93 | 90 - 110 | P | 11/08/2024 | 18:04 | LB133365 |
| | Cadmium | 2430 | 2500 | 97 | 90 - 110 | P | 11/08/2024 | 18:04 | LB133365 |
| | Chromium | 906 | 1000 | 91 | 90 - 110 | P | 11/08/2024 | 18:04 | LB133365 |
| | Lead | 4940 | 5000 | 99 | 90 - 110 | P | 11/08/2024 | 18:04 | LB133365 |
| | Selenium | 5280 | 5000 | 106 | 90 - 110 | P | 11/08/2024 | 18:04 | LB133365 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Silver | 1230 | 1250 | 99 | 90 - 110 | P | 11/08/2024 | 18:04 | LB133365 |
| CCV06 | Arsenic | 4970 | 5000 | 100 | 90 - 110 | P | 11/08/2024 | 18:55 | LB133365 |
| | Barium | 9460 | 10000 | 95 | 90 - 110 | P | 11/08/2024 | 18:55 | LB133365 |
| | Cadmium | 2360 | 2500 | 95 | 90 - 110 | P | 11/08/2024 | 18:55 | LB133365 |
| | Chromium | 923 | 1000 | 92 | 90 - 110 | P | 11/08/2024 | 18:55 | LB133365 |
| | Lead | 4830 | 5000 | 97 | 90 - 110 | P | 11/08/2024 | 18:55 | LB133365 |
| | Selenium | 5100 | 5000 | 102 | 90 - 110 | P | 11/08/2024 | 18:55 | LB133365 |
| | Silver | 1220 | 1250 | 98 | 90 - 110 | P | 11/08/2024 | 18:55 | LB133365 |
| CCV07 | Arsenic | 5060 | 5000 | 101 | 90 - 110 | P | 11/08/2024 | 19:47 | LB133365 |
| | Barium | 9520 | 10000 | 95 | 90 - 110 | P | 11/08/2024 | 19:47 | LB133365 |
| | Cadmium | 2400 | 2500 | 96 | 90 - 110 | P | 11/08/2024 | 19:47 | LB133365 |
| | Chromium | 920 | 1000 | 92 | 90 - 110 | P | 11/08/2024 | 19:47 | LB133365 |
| | Lead | 4910 | 5000 | 98 | 90 - 110 | P | 11/08/2024 | 19:47 | LB133365 |
| | Selenium | 5210 | 5000 | 104 | 90 - 110 | P | 11/08/2024 | 19:47 | LB133365 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 11/08/2024 | 19:47 | LB133365 |
| CCV08 | Arsenic | 4620 | 5000 | 92 | 90 - 110 | P | 11/08/2024 | 20:48 | LB133365 |
| | Barium | 9200 | 10000 | 92 | 90 - 110 | P | 11/08/2024 | 20:48 | LB133365 |
| | Cadmium | 2370 | 2500 | 95 | 90 - 110 | P | 11/08/2024 | 20:48 | LB133365 |
| | Chromium | 920 | 1000 | 92 | 90 - 110 | P | 11/08/2024 | 20:48 | LB133365 |
| | Lead | 4790 | 5000 | 96 | 90 - 110 | P | 11/08/2024 | 20:48 | LB133365 |
| | Selenium | 4670 | 5000 | 93 | 90 - 110 | P | 11/08/2024 | 20:48 | LB133365 |
| | Silver | 1190 | 1250 | 95 | 90 - 110 | P | 11/08/2024 | 20:48 | LB133365 |
| CCV09 | Arsenic | 4610 | 5000 | 92 | 90 - 110 | P | 11/08/2024 | 21:50 | LB133365 |
| | Barium | 9110 | 10000 | 91 | 90 - 110 | P | 11/08/2024 | 21:50 | LB133365 |
| | Cadmium | 2310 | 2500 | 93 | 90 - 110 | P | 11/08/2024 | 21:50 | LB133365 |
| | Chromium | 902 | 1000 | 90 | 90 - 110 | P | 11/08/2024 | 21:50 | LB133365 |
| | Lead | 4710 | 5000 | 94 | 90 - 110 | P | 11/08/2024 | 21:50 | LB133365 |
| | Selenium | 4690 | 5000 | 94 | 90 - 110 | P | 11/08/2024 | 21:50 | LB133365 |
| | Silver | 1190 | 1250 | 95 | 90 - 110 | P | 11/08/2024 | 21:50 | LB133365 |
| CCV10 | Arsenic | 5340 | 5000 | 107 | 90 - 110 | P | 11/08/2024 | 23:24 | LB133365 |
| | Barium | 9550 | 10000 | 96 | 90 - 110 | P | 11/08/2024 | 23:24 | LB133365 |
| | Cadmium | 2430 | 2500 | 97 | 90 - 110 | P | 11/08/2024 | 23:24 | LB133365 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 11/08/2024 | 23:24 | LB133365 |
| | Lead | 4980 | 5000 | 100 | 90 - 110 | P | 11/08/2024 | 23:24 | LB133365 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV10 | Selenium | 4900 | 5000 | 98 | 90 - 110 | P | 11/08/2024 | 23:24 | LB133365 |
| | Silver | 1270 | 1250 | 102 | 90 - 110 | P | 11/08/2024 | 23:24 | LB133365 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Arsenic | 996 | 1000 | 100 | 90 - 110 | P | 11/19/2024 | 20:06 | LB133525 |
| | Barium | 497 | 520 | 96 | 90 - 110 | P | 11/19/2024 | 20:06 | LB133525 |
| | Cadmium | 500 | 510 | 98 | 90 - 110 | P | 11/19/2024 | 20:06 | LB133525 |
| | Chromium | 523 | 520 | 100 | 90 - 110 | P | 11/19/2024 | 20:06 | LB133525 |
| | Lead | 990 | 1000 | 99 | 90 - 110 | P | 11/19/2024 | 20:06 | LB133525 |
| | Selenium | 1020 | 1000 | 102 | 90 - 110 | P | 11/19/2024 | 20:06 | LB133525 |
| | Silver | 251 | 250 | 100 | 90 - 110 | P | 11/19/2024 | 20:06 | LB133525 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Arsenic | 21.7 | 20.0 | 108 | 80 - 120 | P | 11/19/2024 | 20:10 | LB133525 |
| | Barium | 101 | 100 | 101 | 80 - 120 | P | 11/19/2024 | 20:10 | LB133525 |
| | Cadmium | 7.11 | 6.0 | 118 | 80 - 120 | P | 11/19/2024 | 20:10 | LB133525 |
| | Chromium | 10.3 | 10.0 | 104 | 80 - 120 | P | 11/19/2024 | 20:10 | LB133525 |
| | Lead | 11.9 | 12.0 | 100 | 80 - 120 | P | 11/19/2024 | 20:10 | LB133525 |
| | Selenium | 18.5 | 20.0 | 92 | 80 - 120 | P | 11/19/2024 | 20:10 | LB133525 |
| | Silver | 10.4 | 10.0 | 104 | 80 - 120 | P | 11/19/2024 | 20:10 | LB133525 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Arsenic | 4810 | 5000 | 96 | 90 - 110 | P | 11/19/2024 | 20:38 | LB133525 |
| | Barium | 9260 | 10000 | 93 | 90 - 110 | P | 11/19/2024 | 20:38 | LB133525 |
| | Cadmium | 2420 | 2500 | 97 | 90 - 110 | P | 11/19/2024 | 20:38 | LB133525 |
| | Chromium | 1010 | 1000 | 101 | 90 - 110 | P | 11/19/2024 | 20:38 | LB133525 |
| | Lead | 4860 | 5000 | 97 | 90 - 110 | P | 11/19/2024 | 20:38 | LB133525 |
| | Selenium | 4740 | 5000 | 95 | 90 - 110 | P | 11/19/2024 | 20:38 | LB133525 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 11/19/2024 | 20:38 | LB133525 |
| CCV02 | Arsenic | 4710 | 5000 | 94 | 90 - 110 | P | 11/19/2024 | 21:36 | LB133525 |
| | Barium | 10200 | 10000 | 102 | 90 - 110 | P | 11/19/2024 | 21:36 | LB133525 |
| | Cadmium | 2740 | 2500 | 109 | 90 - 110 | P | 11/19/2024 | 21:36 | LB133525 |
| | Chromium | 1090 | 1000 | 109 | 90 - 110 | P | 11/19/2024 | 21:36 | LB133525 |
| | Lead | 5290 | 5000 | 106 | 90 - 110 | P | 11/19/2024 | 21:36 | LB133525 |
| | Selenium | 4570 | 5000 | 91 | 90 - 110 | P | 11/19/2024 | 21:36 | LB133525 |
| | Silver | 1230 | 1250 | 98 | 90 - 110 | P | 11/19/2024 | 21:36 | LB133525 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRA | Mercury | 0.24 | 0.2 | 119 | 40 - 160 | CV | 11/12/2024 | 14:39 | LB133407 |
| CRI01 | Aluminum | 98.5 | 100 | 98 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Antimony | 47.2 | 50.0 | 94 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Arsenic | 20.6 | 20.0 | 103 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Barium | 95.9 | 100 | 96 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Beryllium | 5.63 | 6.0 | 94 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Cadmium | 6.51 | 6.0 | 108 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Calcium | 1930 | 2000 | 96 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Chromium | 9.55 | 10.0 | 96 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Cobalt | 27.6 | 30.0 | 92 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Copper | 21.3 | 20.0 | 107 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Iron | 93.2 | 100 | 93 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Lead | 11.8 | 12.0 | 98 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Magnesium | 1920 | 2000 | 96 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Manganese | 19.6 | 20.0 | 98 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Nickel | 36.7 | 40.0 | 92 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Potassium | 1850 | 2000 | 92 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Selenium | 17.4 | 20.0 | 87 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Silver | 9.72 | 10.0 | 97 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Sodium | 1670 | 2000 | 83 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Thallium | 37.5 | 40.0 | 94 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Vanadium | 38.4 | 40.0 | 96 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |
| | Zinc | 41.6 | 40.0 | 104 | 40 - 160 | P | 11/14/2024 | 14:40 | LB133457 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRA | Mercury | 0.19 | 0.2 | 95 | 40 - 160 | CV | 11/08/2024 | 10:28 | LB133352 |
| CRI01 | Arsenic | 20.1 | 20.0 | 100 | 40 - 160 | P | 11/08/2024 | 14:20 | LB133365 |
| | Barium | 95.0 | 100 | 95 | 40 - 160 | P | 11/08/2024 | 14:20 | LB133365 |
| | Cadmium | 6.16 | 6.0 | 103 | 40 - 160 | P | 11/08/2024 | 14:20 | LB133365 |
| | Chromium | 9.24 | 10.0 | 92 | 40 - 160 | P | 11/08/2024 | 14:20 | LB133365 |
| | Lead | 11.8 | 12.0 | 98 | 40 - 160 | P | 11/08/2024 | 14:20 | LB133365 |
| | Selenium | 19.8 | 20.0 | 99 | 40 - 160 | P | 11/08/2024 | 14:20 | LB133365 |
| | Silver | 10.3 | 10.0 | 103 | 40 - 160 | P | 11/08/2024 | 14:20 | LB133365 |
| CRI01 | Arsenic | 21.8 | 20.0 | 109 | 40 - 160 | P | 11/19/2024 | 20:19 | LB133525 |
| | Barium | 99.9 | 100 | 100 | 40 - 160 | P | 11/19/2024 | 20:19 | LB133525 |
| | Cadmium | 7.16 | 6.0 | 119 | 40 - 160 | P | 11/19/2024 | 20:19 | LB133525 |
| | Chromium | 10.5 | 10.0 | 105 | 40 - 160 | P | 11/19/2024 | 20:19 | LB133525 |
| | Lead | 11.3 | 12.0 | 94 | 40 - 160 | P | 11/19/2024 | 20:19 | LB133525 |
| | Selenium | 17.2 | 20.0 | 86 | 40 - 160 | P | 11/19/2024 | 20:19 | LB133525 |
| | Silver | 10.3 | 10.0 | 103 | 40 - 160 | P | 11/19/2024 | 20:19 | LB133525 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICB83** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/12/2024 | 14:22 | LB133407 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB75** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/12/2024 | 14:29 | LB133407 |
| **CCB76** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/12/2024 | 15:07 | LB133407 |
| **CCB77** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/12/2024 | 15:37 | LB133407 |
| **CCB78** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/12/2024 | 16:01 | LB133407 |
| **CCB79** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/12/2024 | 16:27 | LB133407 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 100 | +/-100 | U | 100 | P | 11/14/2024 | 14:36 | LB133457 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/14/2024 | 14:36 | LB133457 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 14:36 | LB133457 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/14/2024 | 14:36 | LB133457 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 14:36 | LB133457 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 14:36 | LB133457 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 14:36 | LB133457 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 14:36 | LB133457 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/14/2024 | 14:36 | LB133457 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 14:36 | LB133457 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/14/2024 | 14:36 | LB133457 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/14/2024 | 14:36 | LB133457 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 14:36 | LB133457 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 14:36 | LB133457 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 14:36 | LB133457 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 14:36 | LB133457 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 14:36 | LB133457 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 14:36 | LB133457 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 14:36 | LB133457 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 14:36 | LB133457 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 14:36 | LB133457 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 14:36 | LB133457 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB01 | Aluminum | 100 | +/-100 | U | 100 | P | 11/14/2024 | 15:27 | LB133457 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/14/2024 | 15:27 | LB133457 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 15:27 | LB133457 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/14/2024 | 15:27 | LB133457 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 15:27 | LB133457 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 15:27 | LB133457 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 15:27 | LB133457 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 15:27 | LB133457 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/14/2024 | 15:27 | LB133457 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 15:27 | LB133457 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/14/2024 | 15:27 | LB133457 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/14/2024 | 15:27 | LB133457 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 15:27 | LB133457 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 15:27 | LB133457 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 15:27 | LB133457 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 15:27 | LB133457 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 15:27 | LB133457 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 15:27 | LB133457 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 15:27 | LB133457 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 15:27 | LB133457 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 15:27 | LB133457 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 15:27 | LB133457 |
| CCB02 | Aluminum | 100 | +/-100 | U | 100 | P | 11/14/2024 | 15:40 | LB133457 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/14/2024 | 15:40 | LB133457 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 15:40 | LB133457 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/14/2024 | 15:40 | LB133457 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 15:40 | LB133457 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 15:40 | LB133457 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 15:40 | LB133457 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 15:40 | LB133457 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/14/2024 | 15:40 | LB133457 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 15:40 | LB133457 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/14/2024 | 15:40 | LB133457 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/14/2024 | 15:40 | LB133457 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 15:40 | LB133457 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 15:40 | LB133457 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 15:40 | LB133457 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 15:40 | LB133457 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 15:40 | LB133457 |

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Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB02** | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 15:40 | LB133457 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 15:40 | LB133457 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 15:40 | LB133457 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 15:40 | LB133457 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 15:40 | LB133457 |
| **CCB03** | Aluminum | 100 | +/-100 | U | 100 | P | 11/14/2024 | 16:31 | LB133457 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/14/2024 | 16:31 | LB133457 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 16:31 | LB133457 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/14/2024 | 16:31 | LB133457 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 16:31 | LB133457 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 16:31 | LB133457 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 16:31 | LB133457 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 16:31 | LB133457 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/14/2024 | 16:31 | LB133457 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 16:31 | LB133457 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/14/2024 | 16:31 | LB133457 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/14/2024 | 16:31 | LB133457 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 16:31 | LB133457 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 16:31 | LB133457 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 16:31 | LB133457 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 16:31 | LB133457 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 16:31 | LB133457 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 16:31 | LB133457 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 16:31 | LB133457 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 16:31 | LB133457 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 16:31 | LB133457 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 16:31 | LB133457 |
| **CCB04** | Aluminum | 100 | +/-100 | U | 100 | P | 11/14/2024 | 17:27 | LB133457 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/14/2024 | 17:27 | LB133457 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 17:27 | LB133457 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/14/2024 | 17:27 | LB133457 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 17:27 | LB133457 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 17:27 | LB133457 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 17:27 | LB133457 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 17:27 | LB133457 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/14/2024 | 17:27 | LB133457 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 17:27 | LB133457 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/14/2024 | 17:27 | LB133457 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/14/2024 | 17:27 | LB133457 |

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Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB04** | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 17:27 | LB133457 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 17:27 | LB133457 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 17:27 | LB133457 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 17:27 | LB133457 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 17:27 | LB133457 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 17:27 | LB133457 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 17:27 | LB133457 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 17:27 | LB133457 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 17:27 | LB133457 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 17:27 | LB133457 |
| **CCB05** | Aluminum | 100 | +/-100 | U | 100 | P | 11/14/2024 | 18:17 | LB133457 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/14/2024 | 18:17 | LB133457 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 18:17 | LB133457 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/14/2024 | 18:17 | LB133457 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 18:17 | LB133457 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 18:17 | LB133457 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 18:17 | LB133457 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 18:17 | LB133457 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/14/2024 | 18:17 | LB133457 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 18:17 | LB133457 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/14/2024 | 18:17 | LB133457 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/14/2024 | 18:17 | LB133457 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 18:17 | LB133457 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 18:17 | LB133457 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 18:17 | LB133457 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 18:17 | LB133457 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 18:17 | LB133457 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 18:17 | LB133457 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 18:17 | LB133457 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 18:17 | LB133457 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 18:17 | LB133457 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 18:17 | LB133457 |
| **CCB06** | Aluminum | 100 | +/-100 | U | 100 | P | 11/14/2024 | 19:07 | LB133457 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/14/2024 | 19:07 | LB133457 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 19:07 | LB133457 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/14/2024 | 19:07 | LB133457 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 19:07 | LB133457 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 19:07 | LB133457 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 19:07 | LB133457 |

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Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB06** | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 19:07 | LB133457 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/14/2024 | 19:07 | LB133457 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 19:07 | LB133457 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/14/2024 | 19:07 | LB133457 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/14/2024 | 19:07 | LB133457 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 19:07 | LB133457 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 19:07 | LB133457 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 19:07 | LB133457 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 19:07 | LB133457 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 19:07 | LB133457 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 19:07 | LB133457 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 19:07 | LB133457 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 19:07 | LB133457 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 19:07 | LB133457 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 19:07 | LB133457 |
| **CCB07** | Aluminum | 100 | +/-100 | U | 100 | P | 11/14/2024 | 19:59 | LB133457 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/14/2024 | 19:59 | LB133457 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 19:59 | LB133457 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/14/2024 | 19:59 | LB133457 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 19:59 | LB133457 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 19:59 | LB133457 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 19:59 | LB133457 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 19:59 | LB133457 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/14/2024 | 19:59 | LB133457 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 19:59 | LB133457 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/14/2024 | 19:59 | LB133457 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/14/2024 | 19:59 | LB133457 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 19:59 | LB133457 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 19:59 | LB133457 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 19:59 | LB133457 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 19:59 | LB133457 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 19:59 | LB133457 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 19:59 | LB133457 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 19:59 | LB133457 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 19:59 | LB133457 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 19:59 | LB133457 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 19:59 | LB133457 |
| **CCB08** | Aluminum | 100 | +/-100 | U | 100 | P | 11/14/2024 | 21:42 | LB133457 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/14/2024 | 21:42 | LB133457 |

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Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB08** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 21:42 | LB133457 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/14/2024 | 21:42 | LB133457 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 21:42 | LB133457 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 21:42 | LB133457 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 21:42 | LB133457 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 21:42 | LB133457 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/14/2024 | 21:42 | LB133457 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 21:42 | LB133457 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/14/2024 | 21:42 | LB133457 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/14/2024 | 21:42 | LB133457 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 21:42 | LB133457 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 21:42 | LB133457 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 21:42 | LB133457 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 21:42 | LB133457 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 21:42 | LB133457 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 21:42 | LB133457 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 21:42 | LB133457 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 21:42 | LB133457 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 21:42 | LB133457 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 21:42 | LB133457 |
| **CCB09** | Aluminum | 100 | +/-100 | U | 100 | P | 11/14/2024 | 22:08 | LB133457 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/14/2024 | 22:08 | LB133457 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 22:08 | LB133457 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/14/2024 | 22:08 | LB133457 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 22:08 | LB133457 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 22:08 | LB133457 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 22:08 | LB133457 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 22:08 | LB133457 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/14/2024 | 22:08 | LB133457 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 22:08 | LB133457 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/14/2024 | 22:08 | LB133457 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/14/2024 | 22:08 | LB133457 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 22:08 | LB133457 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 22:08 | LB133457 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 22:08 | LB133457 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 22:08 | LB133457 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 22:08 | LB133457 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 22:08 | LB133457 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 22:08 | LB133457 |

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Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB09** | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 22:08 | LB133457 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 22:08 | LB133457 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 22:08 | LB133457 |
| **CCB10** | Aluminum | 100 | +/-100 | U | 100 | P | 11/14/2024 | 23:03 | LB133457 |
| | Antimony | 50.0 | +/-50.0 | U | 50.0 | P | 11/14/2024 | 23:03 | LB133457 |
| | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 23:03 | LB133457 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/14/2024 | 23:03 | LB133457 |
| | Beryllium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 23:03 | LB133457 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/14/2024 | 23:03 | LB133457 |
| | Calcium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 23:03 | LB133457 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 23:03 | LB133457 |
| | Cobalt | 30.0 | +/-30.0 | U | 30.0 | P | 11/14/2024 | 23:03 | LB133457 |
| | Copper | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 23:03 | LB133457 |
| | Iron | 100 | +/-100 | U | 100 | P | 11/14/2024 | 23:03 | LB133457 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/14/2024 | 23:03 | LB133457 |
| | Magnesium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 23:03 | LB133457 |
| | Manganese | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 23:03 | LB133457 |
| | Nickel | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 23:03 | LB133457 |
| | Potassium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 23:03 | LB133457 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/14/2024 | 23:03 | LB133457 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/14/2024 | 23:03 | LB133457 |
| | Sodium | 2000 | +/-2000 | U | 2000 | P | 11/14/2024 | 23:03 | LB133457 |
| | Thallium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 23:03 | LB133457 |
| | Vanadium | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 23:03 | LB133457 |
| | Zinc | 40.0 | +/-40.0 | U | 40.0 | P | 11/14/2024 | 23:03 | LB133457 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICB75** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/08/2024 | 10:21 | LB133352 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB51** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/08/2024 | 10:25 | LB133352 |
| **CCB52** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/08/2024 | 10:56 | LB133352 |
| **CCB53** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/08/2024 | 11:23 | LB133352 |
| **CCB54** | Mercury | 0.20 | +/-0.20 | U | 0.20 | CV | 11/08/2024 | 11:34 | LB133352 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 14:16 | LB133365 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 14:16 | LB133365 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 14:16 | LB133365 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 14:16 | LB133365 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 14:16 | LB133365 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 14:16 | LB133365 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 14:16 | LB133365 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 14:50 | LB133365 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 14:50 | LB133365 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 14:50 | LB133365 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 14:50 | LB133365 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 14:50 | LB133365 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 14:50 | LB133365 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 14:50 | LB133365 |
| **CCB02** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 15:33 | LB133365 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 15:33 | LB133365 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 15:33 | LB133365 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 15:33 | LB133365 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 15:33 | LB133365 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 15:33 | LB133365 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 15:33 | LB133365 |
| **CCB03** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 16:28 | LB133365 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 16:28 | LB133365 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 16:28 | LB133365 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 16:28 | LB133365 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 16:28 | LB133365 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 16:28 | LB133365 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 16:28 | LB133365 |
| **CCB04** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 17:22 | LB133365 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 17:22 | LB133365 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 17:22 | LB133365 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 17:22 | LB133365 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 17:22 | LB133365 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 17:22 | LB133365 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 17:22 | LB133365 |
| **CCB05** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 18:08 | LB133365 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 18:08 | LB133365 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 18:08 | LB133365 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 18:08 | LB133365 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 18:08 | LB133365 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 18:08 | LB133365 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 18:08 | LB133365 |
| **CCB06** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 18:59 | LB133365 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 18:59 | LB133365 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 18:59 | LB133365 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 18:59 | LB133365 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB06** | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 18:59 | LB133365 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 18:59 | LB133365 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 18:59 | LB133365 |
| **CCB07** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 19:51 | LB133365 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 19:51 | LB133365 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 19:51 | LB133365 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 19:51 | LB133365 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 19:51 | LB133365 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 19:51 | LB133365 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 19:51 | LB133365 |
| **CCB08** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 20:57 | LB133365 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 20:57 | LB133365 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 20:57 | LB133365 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 20:57 | LB133365 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 20:57 | LB133365 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 20:57 | LB133365 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 20:57 | LB133365 |
| **CCB09** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 21:55 | LB133365 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 21:55 | LB133365 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 21:55 | LB133365 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 21:55 | LB133365 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 21:55 | LB133365 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 21:55 | LB133365 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 21:55 | LB133365 |
| **CCB10** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 23:35 | LB133365 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/08/2024 | 23:35 | LB133365 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/08/2024 | 23:35 | LB133365 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 23:35 | LB133365 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/08/2024 | 23:35 | LB133365 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/08/2024 | 23:35 | LB133365 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/08/2024 | 23:35 | LB133365 |

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Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/19/2024 | 20:14 | LB133525 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/19/2024 | 20:14 | LB133525 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/19/2024 | 20:14 | LB133525 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/19/2024 | 20:14 | LB133525 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/19/2024 | 20:14 | LB133525 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/19/2024 | 20:14 | LB133525 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/19/2024 | 20:14 | LB133525 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/19/2024 | 20:47 | LB133525 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/19/2024 | 20:47 | LB133525 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/19/2024 | 20:47 | LB133525 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/19/2024 | 20:47 | LB133525 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/19/2024 | 20:47 | LB133525 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/19/2024 | 20:47 | LB133525 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/19/2024 | 20:47 | LB133525 |
| **CCB02** | Arsenic | 20.0 | +/-20.0 | U | 20.0 | P | 11/19/2024 | 21:42 | LB133525 |
| | Barium | 100 | +/-100 | U | 100 | P | 11/19/2024 | 21:42 | LB133525 |
| | Cadmium | 6.00 | +/-6.00 | U | 6.00 | P | 11/19/2024 | 21:42 | LB133525 |
| | Chromium | 10.0 | +/-10.0 | U | 10.0 | P | 11/19/2024 | 21:42 | LB133525 |
| | Lead | 12.0 | +/-12.0 | U | 12.0 | P | 11/19/2024 | 21:42 | LB133525 |
| | Selenium | 20.0 | +/-20.0 | U | 20.0 | P | 11/19/2024 | 21:42 | LB133525 |
| | Silver | 10.0 | +/-10.0 | U | 10.0 | P | 11/19/2024 | 21:42 | LB133525 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Instrument:** CV1

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB164892BL** | | **WATER** | | **Batch Number:** | **PB164892** | | **Prep Date:** | **11/11/2024** | |
| | Mercury | 0.20 | <0.20 | U | 0.20 | CV | 11/12/2024 | 14:49 | LB133407 |
| **PB164892TB** | | **WATER** | | **Batch Number:** | **PB164892** | | **Prep Date:** | **11/11/2024** | |
| | Mercury | 0.20 | <0.20 | U | 0.20 | CV | 11/12/2024 | 16:06 | LB133407 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Instrument:** P4

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB164869BL** | | **WATER** | | **Batch Number:** | **PB164869** | | **Prep Date:** | **11/11/2024** | |
| | Aluminum | 50.0 | <50.0 | U | 50.0 | P | 11/14/2024 | 16:05 | LB133457 |
| | Antimony | 25.0 | <25.0 | U | 25.0 | P | 11/14/2024 | 16:05 | LB133457 |
| | Arsenic | 10.0 | <10.0 | U | 10.0 | P | 11/14/2024 | 16:05 | LB133457 |
| | Barium | 50.0 | <50.0 | U | 50.0 | P | 11/14/2024 | 16:05 | LB133457 |
| | Beryllium | 3.00 | <3.00 | U | 3.00 | P | 11/14/2024 | 16:05 | LB133457 |
| | Cadmium | 3.00 | <3.00 | U | 3.00 | P | 11/14/2024 | 16:05 | LB133457 |
| | Calcium | 1000 | <1000 | U | 1000 | P | 11/14/2024 | 16:05 | LB133457 |
| | Chromium | 5.00 | <5.00 | U | 5.00 | P | 11/14/2024 | 16:05 | LB133457 |
| | Cobalt | 15.0 | <15.0 | U | 15.0 | P | 11/14/2024 | 16:05 | LB133457 |
| | Copper | 10.0 | <10.0 | U | 10.0 | P | 11/14/2024 | 16:05 | LB133457 |
| | Iron | 50.0 | <50.0 | U | 50.0 | P | 11/14/2024 | 16:05 | LB133457 |
| | Lead | 6.00 | <6.00 | U | 6.00 | P | 11/14/2024 | 16:05 | LB133457 |
| | Magnesium | 1000 | <1000 | U | 1000 | P | 11/14/2024 | 16:05 | LB133457 |
| | Manganese | 10.0 | <10.0 | U | 10.0 | P | 11/14/2024 | 16:05 | LB133457 |
| | Nickel | 20.0 | <20.0 | U | 20.0 | P | 11/14/2024 | 16:05 | LB133457 |
| | Potassium | 1000 | <1000 | U | 1000 | P | 11/14/2024 | 16:05 | LB133457 |
| | Selenium | 10.0 | <10.0 | U | 10.0 | P | 11/14/2024 | 16:05 | LB133457 |
| | Silver | 5.00 | <5.00 | U | 5.00 | P | 11/14/2024 | 16:05 | LB133457 |
| | Sodium | 1000 | <1000 | U | 1000 | P | 11/14/2024 | 16:05 | LB133457 |
| | Thallium | 20.0 | <20.0 | U | 20.0 | P | 11/14/2024 | 16:05 | LB133457 |
| | Vanadium | 20.0 | <20.0 | U | 20.0 | P | 11/14/2024 | 16:05 | LB133457 |
| | Zinc | 20.0 | <20.0 | U | 20.0 | P | 11/14/2024 | 16:05 | LB133457 |

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB164869TB** | | **WATER** | | **Batch Number:** | **PB164869** | | **Prep Date:** | **11/11/2024** | |
| | Aluminum | 50.0 | <50.0 | U | 50.0 | P | 11/14/2024 | 16:01 | LB133457 |
| | Antimony | 25.0 | <25.0 | U | 25.0 | P | 11/14/2024 | 16:01 | LB133457 |
| | Arsenic | 10.0 | <10.0 | U | 10.0 | P | 11/14/2024 | 16:01 | LB133457 |
| | Barium | 50.0 | <50.0 | U | 50.0 | P | 11/14/2024 | 16:01 | LB133457 |
| | Beryllium | 3.00 | <3.00 | U | 3.00 | P | 11/14/2024 | 16:01 | LB133457 |
| | Cadmium | 3.00 | <3.00 | U | 3.00 | P | 11/14/2024 | 16:01 | LB133457 |
| | Calcium | 1000 | <1000 | U | 1000 | P | 11/14/2024 | 16:01 | LB133457 |
| | Chromium | 5.00 | <5.00 | U | 5.00 | P | 11/14/2024 | 16:01 | LB133457 |
| | Cobalt | 15.0 | <15.0 | U | 15.0 | P | 11/14/2024 | 16:01 | LB133457 |
| | Copper | 10.0 | <10.0 | U | 10.0 | P | 11/14/2024 | 16:01 | LB133457 |
| | Iron | 50.0 | <50.0 | U | 50.0 | P | 11/14/2024 | 16:01 | LB133457 |
| | Lead | 6.00 | <6.00 | U | 6.00 | P | 11/14/2024 | 16:01 | LB133457 |
| | Magnesium | 1000 | <1000 | U | 1000 | P | 11/14/2024 | 16:01 | LB133457 |
| | Manganese | 10.0 | <10.0 | U | 10.0 | P | 11/14/2024 | 16:01 | LB133457 |
| | Nickel | 20.0 | <20.0 | U | 20.0 | P | 11/14/2024 | 16:01 | LB133457 |

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Fax : 908 789 8922

# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Instrument:** P4

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Potassium | 1000 | <1000 | U | 1000 | P | 11/14/2024 | 16:01 | LB133457 |
| Selenium | 10.0 | <10.0 | U | 10.0 | P | 11/14/2024 | 16:01 | LB133457 |
| Silver | 5.00 | <5.00 | U | 5.00 | P | 11/14/2024 | 16:01 | LB133457 |
| Sodium | 1000 | <1000 | U | 1000 | P | 11/14/2024 | 16:01 | LB133457 |
| Thallium | 20.0 | <20.0 | U | 20.0 | P | 11/14/2024 | 16:01 | LB133457 |
| Vanadium | 20.0 | <20.0 | U | 20.0 | P | 11/14/2024 | 16:01 | LB133457 |
| Zinc | 20.0 | <20.0 | U | 20.0 | P | 11/14/2024 | 16:01 | LB133457 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Instrument:** CV1

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB164694TB** | | **WATER** | | **Batch Number:** | **PB164791** | | **Prep Date:** | **11/07/2024** | |
| | Mercury | 2.00 | <2.00 | U | 2.00 | CV | 11/08/2024 | 11:25 | LB133352 |

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB164791BL** | | **WATER** | | **Batch Number:** | **PB164791** | | **Prep Date:** | **11/07/2024** | |
| | Mercury | 0.20 | <0.20 | U | 0.20 | CV | 11/08/2024 | 10:38 | LB133352 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Instrument:** P4

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB164694TB** | | **WATER** | | **Batch Number:** | **PB164768** | | **Prep Date:** | **11/07/2024** | |
| | Arsenic | 100 | <100 | U | 100 | P | 11/08/2024 | 16:54 | LB133365 |
| | Barium | 500 | <500 | U | 500 | P | 11/08/2024 | 16:54 | LB133365 |
| | Cadmium | 30.0 | <30.0 | U | 30.0 | P | 11/08/2024 | 16:54 | LB133365 |
| | Chromium | 50.0 | <50.0 | U | 50.0 | P | 11/08/2024 | 16:54 | LB133365 |
| | Lead | 60.0 | <60.0 | U | 60.0 | P | 11/08/2024 | 16:54 | LB133365 |
| | Selenium | 100 | <100 | U | 100 | P | 11/08/2024 | 16:54 | LB133365 |
| | Silver | 50.0 | <50.0 | U | 50.0 | P | 11/08/2024 | 16:54 | LB133365 |

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB164768BL** | | **WATER** | | **Batch Number:** | **PB164768** | | **Prep Date:** | **11/07/2024** | |
| | Arsenic | 100 | <100 | U | 100 | P | 11/08/2024 | 16:59 | LB133365 |
| | Barium | 500 | <500 | U | 500 | P | 11/08/2024 | 16:59 | LB133365 |
| | Cadmium | 30.0 | <30.0 | U | 30.0 | P | 11/08/2024 | 16:59 | LB133365 |
| | Chromium | 50.0 | <50.0 | U | 50.0 | P | 11/08/2024 | 16:59 | LB133365 |
| | Lead | 60.0 | <60.0 | U | 60.0 | P | 11/08/2024 | 16:59 | LB133365 |
| | Selenium | 100 | <100 | U | 100 | P | 11/08/2024 | 16:59 | LB133365 |
| | Silver | 50.0 | <50.0 | U | 50.0 | P | 11/08/2024 | 16:59 | LB133365 |

Alliance TECHNICAL GROUP
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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICSA01 | Aluminum | 257000 | 255000 | 101 | 216000 | 294000 | 11/14/2024 | 14:54 | LB133457 |
| | Antimony | -0.36 | | | -50 | 50 | 11/14/2024 | 14:54 | LB133457 |
| | Arsenic | -1.10 | | | -20 | 20 | 11/14/2024 | 14:54 | LB133457 |
| | Barium | 3.24 | 6.0 | 54 | -94 | 106 | 11/14/2024 | 14:54 | LB133457 |
| | Beryllium | 1.25 | | | -6 | 6 | 11/14/2024 | 14:54 | LB133457 |
| | Cadmium | 6.64 | 1.0 | 664 | -5 | 7 | 11/14/2024 | 14:54 | LB133457 |
| | Calcium | 244000 | 245000 | 100 | 208000 | 282000 | 11/14/2024 | 14:54 | LB133457 |
| | Chromium | 55.5 | 52.0 | 107 | 42 | 62 | 11/14/2024 | 14:54 | LB133457 |
| | Cobalt | 2.07 | | | -30 | 30 | 11/14/2024 | 14:54 | LB133457 |
| | Copper | -4.72 | 2.0 | 236 | -18 | 22 | 11/14/2024 | 14:54 | LB133457 |
| | Iron | 98700 | 101000 | 98 | 85600 | 116500 | 11/14/2024 | 14:54 | LB133457 |
| | Lead | 8.61 | | | -12 | 12 | 11/14/2024 | 14:54 | LB133457 |
| | Magnesium | 271000 | 255000 | 106 | 216000 | 294000 | 11/14/2024 | 14:54 | LB133457 |
| | Manganese | 5.69 | 7.0 | 81 | -13 | 27 | 11/14/2024 | 14:54 | LB133457 |
| | Nickel | 2.90 | 2.0 | 145 | -38 | 42 | 11/14/2024 | 14:54 | LB133457 |
| | Potassium | 24.4 | | | 0 | 0 | 11/14/2024 | 14:54 | LB133457 |
| | Selenium | -16.4 | | | -20 | 20 | 11/14/2024 | 14:54 | LB133457 |
| | Silver | 2.63 | | | -10 | 10 | 11/14/2024 | 14:54 | LB133457 |
| | Sodium | 34.7 | | | 0 | 0 | 11/14/2024 | 14:54 | LB133457 |
| | Thallium | 12.7 | | | -40 | 40 | 11/14/2024 | 14:54 | LB133457 |
| | Vanadium | 6.61 | | | -40 | 40 | 11/14/2024 | 14:54 | LB133457 |
| | Zinc | 6.48 | | | -40 | 40 | 11/14/2024 | 14:54 | LB133457 |
| ICSAB01 | Aluminum | 271000 | 247000 | 110 | 209000 | 285000 | 11/14/2024 | 15:18 | LB133457 |
| | Antimony | 629 | 618 | 102 | 525 | 711 | 11/14/2024 | 15:18 | LB133457 |
| | Arsenic | 117 | 104 | 112 | 88.4 | 120 | 11/14/2024 | 15:18 | LB133457 |
| | Barium | 535 | 537 | 100 | 437 | 637 | 11/14/2024 | 15:18 | LB133457 |
| | Beryllium | 521 | 495 | 105 | 420 | 570 | 11/14/2024 | 15:18 | LB133457 |
| | Cadmium | 1020 | 972 | 105 | 826 | 1120 | 11/14/2024 | 15:18 | LB133457 |
| | Calcium | 254000 | 235000 | 108 | 199000 | 271000 | 11/14/2024 | 15:18 | LB133457 |
| | Chromium | 568 | 542 | 105 | 460 | 624 | 11/14/2024 | 15:18 | LB133457 |
| | Cobalt | 516 | 476 | 108 | 404 | 548 | 11/14/2024 | 15:18 | LB133457 |
| | Copper | 493 | 511 | 96 | 434 | 588 | 11/14/2024 | 15:18 | LB133457 |
| | Iron | 103000 | 99300 | 104 | 84400 | 114500 | 11/14/2024 | 15:18 | LB133457 |
| | Lead | 56.9 | 49.0 | 116 | 37 | 61 | 11/14/2024 | 15:18 | LB133457 |
| | Magnesium | 279000 | 248000 | 112 | 210000 | 286000 | 11/14/2024 | 15:18 | LB133457 |
| | Manganese | 515 | 507 | 102 | 430 | 584 | 11/14/2024 | 15:18 | LB133457 |
| | Nickel | 1020 | 954 | 107 | 810 | 1100 | 11/14/2024 | 15:18 | LB133457 |
| | Potassium | -0.81 | | | 0 | 0 | 11/14/2024 | 15:18 | LB133457 |
| | Selenium | 35.8 | 46.0 | 78 | 26 | 66 | 11/14/2024 | 15:18 | LB133457 |
| | Silver | 206 | 201 | 102 | 170 | 232 | 11/14/2024 | 15:18 | LB133457 |
| | Sodium | -5.35 | | | 0 | 0 | 11/14/2024 | 15:18 | LB133457 |
| | Thallium | 103 | 108 | 95 | 68 | 148 | 11/14/2024 | 15:18 | LB133457 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICSAB01 | Vanadium | 511 | 491 | 104 | 417 | 565 | 11/14/2024 | 15:18 | LB133457 |
| | Zinc | 852 | 952 | 90 | 809 | 1095 | 11/14/2024 | 15:18 | LB133457 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICSA01** | Arsenic | 5.52 | | | -20 | 20 | 11/08/2024 | 14:24 | LB133365 |
| | Barium | 1.84 | 6.0 | 31 | -94 | 106 | 11/08/2024 | 14:24 | LB133365 |
| | Cadmium | 6.11 | 1.0 | 611 | -5 | 7 | 11/08/2024 | 14:24 | LB133365 |
| | Chromium | 54.3 | 52.0 | 104 | 42 | 62 | 11/08/2024 | 14:24 | LB133365 |
| | Lead | 9.97 | | | -12 | 12 | 11/08/2024 | 14:24 | LB133365 |
| | Selenium | -14.4 | | | -20 | 20 | 11/08/2024 | 14:24 | LB133365 |
| | Silver | -0.087 | | | -10 | 10 | 11/08/2024 | 14:24 | LB133365 |
| **ICSAB01** | Arsenic | 115 | 104 | 111 | 88.4 | 120 | 11/08/2024 | 14:30 | LB133365 |
| | Barium | 496 | 537 | 92 | 437 | 637 | 11/08/2024 | 14:30 | LB133365 |
| | Cadmium | 979 | 972 | 101 | 826 | 1120 | 11/08/2024 | 14:30 | LB133365 |
| | Chromium | 521 | 542 | 96 | 460 | 624 | 11/08/2024 | 14:30 | LB133365 |
| | Lead | 57.3 | 49.0 | 117 | 37 | 61 | 11/08/2024 | 14:30 | LB133365 |
| | Selenium | 31.2 | 46.0 | 68 | 26 | 66 | 11/08/2024 | 14:30 | LB133365 |
| | Silver | 198 | 201 | 98 | 170 | 232 | 11/08/2024 | 14:30 | LB133365 |
| **ICSA01** | Arsenic | 7.44 | | | -20 | 20 | 11/19/2024 | 20:23 | LB133525 |
| | Barium | 4.72 | 6.0 | 79 | -94 | 106 | 11/19/2024 | 20:23 | LB133525 |
| | Cadmium | 5.53 | 1.0 | 553 | -5 | 7 | 11/19/2024 | 20:23 | LB133525 |
| | Chromium | 59.7 | 52.0 | 115 | 42 | 62 | 11/19/2024 | 20:23 | LB133525 |
| | Lead | 9.28 | | | -12 | 12 | 11/19/2024 | 20:23 | LB133525 |
| | Selenium | -19.2 | | | -20 | 20 | 11/19/2024 | 20:23 | LB133525 |
| | Silver | -0.77 | | | -10 | 10 | 11/19/2024 | 20:23 | LB133525 |
| **ICSAB01** | Arsenic | 115 | 104 | 111 | 88.4 | 120 | 11/19/2024 | 20:27 | LB133525 |
| | Barium | 493 | 537 | 92 | 437 | 637 | 11/19/2024 | 20:27 | LB133525 |
| | Cadmium | 1030 | 972 | 106 | 826 | 1120 | 11/19/2024 | 20:27 | LB133525 |
| | Chromium | 583 | 542 | 108 | 460 | 624 | 11/19/2024 | 20:27 | LB133525 |
| | Lead | 57.7 | 49.0 | 118 | 37 | 61 | 11/19/2024 | 20:27 | LB133525 |
| | Selenium | 30.0 | 46.0 | 65 | 26 | 66 | 11/19/2024 | 20:27 | LB133525 |
| | Silver | 202 | 201 | 100 | 170 | 232 | 11/19/2024 | 20:27 | LB133525 |

# METAL QC DATA

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Walsh Construction Company II, LLC **level:** low **sdg no.:** P4722

**contract:** WALS01 **lab code:** CHEM **case no.:** P4722 **sas no.:** P4722

**matrix:** Water **sample id:** P4722-15 **client id:** WC-3(0-6)MS

**Percent Solids for Sample:** NA **Spiked ID:** P4722-15MS **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 75 - 125 | 983 | | 29.5 | J | 1000 | 95 | | P |
| Antimony | ug/L | 75 - 125 | 390 | | 2.70 | J | 400 | 97 | | P |
| Arsenic | ug/L | 75 - 125 | 396 | | 10.0 | U | 400 | 99 | | P |
| Barium | ug/L | 75 - 125 | 172 | | 76.6 | | 100 | 96 | | P |
| Beryllium | ug/L | 75 - 125 | 93.8 | | 3.00 | U | 100 | 94 | | P |
| Cadmium | ug/L | 75 - 125 | 89.8 | | 0.32 | J | 100 | 90 | | P |
| Calcium | ug/L | 75 - 125 | 165000 | | 167000 | | 500 | -452 | | P |
| Chromium | ug/L | 75 - 125 | 188 | | 1.28 | J | 200 | 94 | | P |
| Cobalt | ug/L | 75 - 125 | 91.5 | | 15.0 | U | 100 | 92 | | P |
| Copper | ug/L | 75 - 125 | 149 | | 10.4 | | 150 | 92 | | P |
| Iron | ug/L | 75 - 125 | 1510 | | 96.2 | | 1500 | 94 | | P |
| Lead | ug/L | 75 - 125 | 451 | | 12.8 | | 500 | 88 | | P |
| Magnesium | ug/L | 75 - 125 | 7610 | | 6910 | | 1000 | 70 | | P |
| Manganese | ug/L | 75 - 125 | 116 | | 21.7 | | 100 | 94 | | P |
| Mercury | ug/L | 75 - 125 | 4.03 | | 0.20 | U | 4.0 | 101 | | CV |
| Nickel | ug/L | 75 - 125 | 231 | | 3.85 | J | 250 | 91 | | P |
| Potassium | ug/L | 75 - 125 | 8110 | | 3330 | | 5000 | 96 | | P |
| Selenium | ug/L | 75 - 125 | 927 | | 10.0 | U | 1000 | 93 | | P |
| Silver | ug/L | 75 - 125 | 35.7 | | 5.00 | U | 37.5 | 95 | | P |
| Sodium | ug/L | 75 - 125 | 20300 | | 19600 | | 1500 | 47 | | P |
| Thallium | ug/L | 75 - 125 | 869 | | 20.0 | U | 1000 | 87 | | P |
| Vanadium | ug/L | 75 - 125 | 145 | | 20.0 | U | 150 | 97 | | P |
| Zinc | ug/L | 75 - 125 | 152 | | 55.1 | | 100 | 96 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Walsh Construction Company II, LLC **level:** low **sdg no.:** P4722

**contract:** WALS01 **lab code:** CHEM **case no.:** P4722 **sas no.:** P4722

**matrix:** Water **sample id:** P4722-15 **client id:** WC-3(0-6)MSD

**Percent Solids for Sample:** NA **Spiked ID:** P4722-15MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 75 - 125 | 1010 | | 29.5 | J | 1000 | 99 | | P |
| Antimony | ug/L | 75 - 125 | 405 | | 2.70 | J | 400 | 101 | | P |
| Arsenic | ug/L | 75 - 125 | 414 | | 10.0 | U | 400 | 104 | | P |
| Barium | ug/L | 75 - 125 | 176 | | 76.6 | | 100 | 99 | | P |
| Beryllium | ug/L | 75 - 125 | 96.0 | | 3.00 | U | 100 | 96 | | P |
| Cadmium | ug/L | 75 - 125 | 93.5 | | 0.32 | J | 100 | 93 | | P |
| Calcium | ug/L | 75 - 125 | 167000 | | 167000 | | 500 | 16 | | P |
| Chromium | ug/L | 75 - 125 | 195 | | 1.28 | J | 200 | 97 | | P |
| Cobalt | ug/L | 75 - 125 | 94.9 | | 15.0 | U | 100 | 95 | | P |
| Copper | ug/L | 75 - 125 | 155 | | 10.4 | | 150 | 97 | | P |
| Iron | ug/L | 75 - 125 | 1580 | | 96.2 | | 1500 | 99 | | P |
| Lead | ug/L | 75 - 125 | 468 | | 12.8 | | 500 | 91 | | P |
| Magnesium | ug/L | 75 - 125 | 7740 | | 6910 | | 1000 | 83 | | P |
| Manganese | ug/L | 75 - 125 | 119 | | 21.7 | | 100 | 98 | | P |
| Mercury | ug/L | 75 - 125 | 4.41 | | 0.20 | U | 4.0 | 110 | | CV |
| Nickel | ug/L | 75 - 125 | 240 | | 3.85 | J | 250 | 94 | | P |
| Potassium | ug/L | 75 - 125 | 8410 | | 3330 | | 5000 | 102 | | P |
| Selenium | ug/L | 75 - 125 | 982 | | 10.0 | U | 1000 | 98 | | P |
| Silver | ug/L | 75 - 125 | 37.1 | | 5.00 | U | 37.5 | 99 | | P |
| Sodium | ug/L | 75 - 125 | 20900 | | 19600 | | 1500 | 88 | | P |
| Thallium | ug/L | 75 - 125 | 925 | | 20.0 | U | 1000 | 92 | | P |
| Vanadium | ug/L | 75 - 125 | 150 | | 20.0 | U | 150 | 100 | | P |
| Zinc | ug/L | 75 - 125 | 157 | | 55.1 | | 100 | 102 | | P |

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** Walsh Construction Company II, LLC **level:** low **sdg no.:** P4722

**contract:** WALS01 **lab code:** CHEM **case no.:** P4722 **sas no.:** P4722

**matrix:** Water **sample id:** P4718-03 **client id:** WB-307-SB02MS

**Percent Solids for Sample:** NA **Spiked ID:** P4718-03MS **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 75 - 125 | 4010 | | 100 | U | 4000 | 100 | | P |
| Barium | ug/L | 75 - 125 | 2780 | | 1850 | | 1000 | 94 | | P |
| Cadmium | ug/L | 75 - 125 | 1120 | | 30.0 | U | 1000 | 112 | | P |
| Chromium | ug/L | 75 - 125 | 2340 | | 16.1 | J | 2000 | 116 | | P |
| Lead | ug/L | 75 - 125 | 5130 | | 60.0 | U | 5000 | 103 | | P |
| Mercury | ug/L | 75 - 125 | 33.6 | | 2.00 | U | 40.0 | 84 | | CV |
| Selenium | ug/L | 75 - 125 | 9590 | | 100 | U | 10000 | 96 | | P |
| Silver | ug/L | 75 - 125 | 362 | | 50.0 | U | 380 | 95 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** Walsh Construction Company II, LLC **level:** low **sdg no.:** P4722

**contract:** WALS01 **lab code:** CHEM **case no.:** P4722 **sas no.:** P4722

**matrix:** Water **sample id:** P4718-03 **client id:** WB-307-SB02MSD

**Percent Solids for Sample:** NA **Spiked ID:** P4718-03MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 75 - 125 | 3850 | | 100 | U | 4000 | 96 | | P |
| Barium | ug/L | 75 - 125 | 2560 | | 1850 | | 1000 | 72 | N | P |
| Cadmium | ug/L | 75 - 125 | 1080 | | 30.0 | U | 1000 | 108 | | P |
| Chromium | ug/L | 75 - 125 | 2270 | | 16.1 | J | 2000 | 113 | | P |
| Lead | ug/L | 75 - 125 | 4900 | | 60.0 | U | 5000 | 98 | | P |
| Mercury | ug/L | 75 - 125 | 40.7 | | 2.00 | U | 40.0 | 102 | | CV |
| Selenium | ug/L | 75 - 125 | 9210 | | 100 | U | 10000 | 92 | | P |
| Silver | ug/L | 75 - 125 | 343 | | 50.0 | U | 380 | 90 | | P |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Matrix:** Water **Level:** LOW **Client ID:** WB-307-SB02A

**Sample ID:** P4718-03 **Spiked ID:** P4718-03A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Barium | ug/L | 75 - 125 | 2690 | | 1850 | | 1000 | 84 | | P |

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Walsh Construction Company II, LLC **Level:** LOW **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Matrix:** Water **Sample ID:** P4722-15 **Client ID:** WC-3(0-6)DUP

**Percent Solids for Sample:** NA **Duplicate ID** P4722-15DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 20 | 29.5 | J | 29.1 | J | 1 | | P |
| Antimony | ug/L | 20 | 2.70 | J | 3.27 | J | 19 | | P |
| Arsenic | ug/L | 20 | 10.0 | U | 10.0 | U | | | P |
| Barium | ug/L | 20 | 76.6 | | 76.6 | | 0 | | P |
| Beryllium | ug/L | 20 | 3.00 | U | 3.00 | U | | | P |
| Cadmium | ug/L | 20 | 0.32 | J | 0.36 | J | 14 | | P |
| Calcium | ug/L | 20 | 167000 | | 167000 | | 0 | | P |
| Chromium | ug/L | 20 | 1.28 | J | 1.41 | J | 10 | | P |
| Cobalt | ug/L | 20 | 15.0 | U | 15.0 | U | | | P |
| Copper | ug/L | 20 | 10.4 | | 10.6 | | 2 | | P |
| Iron | ug/L | 20 | 96.2 | | 95.2 | | 1 | | P |
| Lead | ug/L | 20 | 12.8 | | 13.3 | | 4 | | P |
| Magnesium | ug/L | 20 | 6910 | | 6840 | | 1 | | P |
| Manganese | ug/L | 20 | 21.7 | | 21.7 | | 0 | | P |
| Mercury | ug/L | 20 | 0.20 | U | 0.20 | U | | | CV |
| Nickel | ug/L | 20 | 3.85 | J | 3.81 | J | 1 | | P |
| Potassium | ug/L | 20 | 3330 | | 3310 | | 1 | | P |
| Selenium | ug/L | 20 | 10.0 | U | 10.0 | U | | | P |
| Silver | ug/L | 20 | 5.00 | U | 5.00 | U | | | P |
| Sodium | ug/L | 20 | 19600 | | 19500 | | 1 | | P |
| Thallium | ug/L | 20 | 20.0 | U | 20.0 | U | | | P |
| Vanadium | ug/L | 20 | 20.0 | U | 20.0 | U | | | P |
| Zinc | ug/L | 20 | 55.1 | | 54.2 | | 2 | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Walsh Construction Company II, LLC **Level:** LOW **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Matrix:** Water **Sample ID:** P4722-15MS **Client ID:** WC-3(0-6)MSD

**Percent Solids for Sample:** NA **Duplicate ID** P4722-15MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 20 | 983 | | 1010 | | 3 | | P |
| Antimony | ug/L | 20 | 390 | | 405 | | 4 | | P |
| Arsenic | ug/L | 20 | 396 | | 414 | | 4 | | P |
| Barium | ug/L | 20 | 172 | | 176 | | 2 | | P |
| Beryllium | ug/L | 20 | 93.8 | | 96.0 | | 2 | | P |
| Cadmium | ug/L | 20 | 89.8 | | 93.5 | | 4 | | P |
| Calcium | ug/L | 20 | 165000 | | 167000 | | 1 | | P |
| Chromium | ug/L | 20 | 188 | | 195 | | 4 | | P |
| Cobalt | ug/L | 20 | 91.5 | | 94.9 | | 4 | | P |
| Copper | ug/L | 20 | 149 | | 155 | | 4 | | P |
| Iron | ug/L | 20 | 1510 | | 1580 | | 5 | | P |
| Lead | ug/L | 20 | 451 | | 468 | | 4 | | P |
| Magnesium | ug/L | 20 | 7610 | | 7740 | | 2 | | P |
| Manganese | ug/L | 20 | 116 | | 119 | | 3 | | P |
| Mercury | ug/L | 20 | 4.03 | | 4.41 | | 9 | | CV |
| Nickel | ug/L | 20 | 231 | | 240 | | 4 | | P |
| Potassium | ug/L | 20 | 8110 | | 8410 | | 4 | | P |
| Selenium | ug/L | 20 | 927 | | 982 | | 6 | | P |
| Silver | ug/L | 20 | 35.7 | | 37.1 | | 4 | | P |
| Sodium | ug/L | 20 | 20300 | | 20900 | | 3 | | P |
| Thallium | ug/L | 20 | 869 | | 925 | | 6 | | P |
| Vanadium | ug/L | 20 | 145 | | 150 | | 3 | | P |
| Zinc | ug/L | 20 | 152 | | 157 | | 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

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Walsh Construction Company II, LLC **Level:** LOW **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Matrix:** Water **Sample ID:** P4718-03 **Client ID:** WB-307-SB02DUP

**Percent Solids for Sample:** NA **Duplicate ID** P4718-03DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 20 | 100 | U | 100 | U | | | P |
| Barium | ug/L | 20 | 1850 | | 1790 | | 3 | | P |
| Cadmium | ug/L | 20 | 30.0 | U | 30.0 | U | | | P |
| Chromium | ug/L | 20 | 16.1 | J | 14.3 | J | 12 | | P |
| Lead | ug/L | 20 | 60.0 | U | 60.0 | U | | | P |
| Mercury | ug/L | 20 | 2.00 | U | 2.00 | U | | | CV |
| Selenium | ug/L | 20 | 100 | U | 100 | U | | | P |
| Silver | ug/L | 20 | 50.0 | U | 50.0 | U | | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** Walsh Construction Company II, LLC **Level:** LOW **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Matrix:** Water **Sample ID:** P4718-03MS **Client ID:** WB-307-SB02MSD

**Percent Solids for Sample:** NA **Duplicate ID** P4718-03MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 20 | 4010 | | 3850 | | 4 | | P |
| Barium | ug/L | 20 | 2780 | | 2560 | | 8 | | P |
| Cadmium | ug/L | 20 | 1120 | | 1080 | | 4 | | P |
| Chromium | ug/L | 20 | 2340 | | 2270 | | 3 | | P |
| Lead | ug/L | 20 | 5130 | | 4900 | | 5 | | P |
| Mercury | ug/L | 20 | 33.6 | | 40.7 | | 19 | | CV |
| Selenium | ug/L | 20 | 9590 | | 9210 | | 4 | | P |
| Silver | ug/L | 20 | 362 | | 343 | | 5 | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB164869BS | | | | | | | |
| Aluminum | ug/L | 1000 | 958 | | 96 | 80 - 120 | P |
| Antimony | ug/L | 400 | 369 | | 92 | 80 - 120 | P |
| Arsenic | ug/L | 400 | 375 | | 94 | 80 - 120 | P |
| Barium | ug/L | 100 | 94.6 | | 95 | 80 - 120 | P |
| Beryllium | ug/L | 100 | 97.0 | | 97 | 80 - 120 | P |
| Cadmium | ug/L | 100 | 90.2 | | 90 | 80 - 120 | P |
| Calcium | ug/L | 500 | 496 | J | 99 | 80 - 120 | P |
| Chromium | ug/L | 200 | 190 | | 95 | 80 - 120 | P |
| Cobalt | ug/L | 100 | 91.9 | | 92 | 80 - 120 | P |
| Copper | ug/L | 150 | 147 | | 98 | 80 - 120 | P |
| Iron | ug/L | 1500 | 1390 | | 93 | 80 - 120 | P |
| Lead | ug/L | 500 | 460 | | 92 | 80 - 120 | P |
| Magnesium | ug/L | 1000 | 944 | J | 94 | 80 - 120 | P |
| Manganese | ug/L | 100 | 96.7 | | 97 | 80 - 120 | P |
| Nickel | ug/L | 250 | 231 | | 92 | 80 - 120 | P |
| Potassium | ug/L | 5000 | 4530 | | 91 | 80 - 120 | P |
| Selenium | ug/L | 1000 | 923 | | 92 | 80 - 120 | P |
| Silver | ug/L | 37.5 | 35.0 | | 93 | 80 - 120 | P |
| Sodium | ug/L | 1500 | 1240 | | 83 | 80 - 120 | P |
| Thallium | ug/L | 1000 | 936 | | 94 | 80 - 120 | P |
| Vanadium | ug/L | 150 | 144 | | 96 | 80 - 120 | P |
| Zinc | ug/L | 100 | 99.0 | | 99 | 80 - 120 | P |

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB164892BS | | | | | | | |
| Mercury | ug/L | 4.0 | 4.21 | | 105 | 80 - 120 | CV |

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB164768BS | | | | | | | |
| Arsenic | ug/L | 4000 | 3890 | | 97 | 80 - 120 | P |
| Barium | ug/L | 1000 | 956 | | 96 | 80 - 120 | P |
| Cadmium | ug/L | 1000 | 901 | | 90 | 80 - 120 | P |
| Chromium | ug/L | 2000 | 1800 | | 90 | 80 - 120 | P |
| Lead | ug/L | 5000 | 4650 | | 93 | 80 - 120 | P |
| Selenium | ug/L | 10000 | 9760 | | 98 | 80 - 120 | P |
| Silver | ug/L | 380 | 363 | | 96 | 80 - 120 | P |

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB164791BS | | | | | | | |
| Mercury | ug/L | 4.0 | 4.19 | | 105 | 80 - 120 | CV |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

WC-3(0-6)L

**Lab Name:** Chemtech Consulting Group **Contract:** WALS01

**Lab Code:** CHEM **Lb No.:** lb133457 **Lab Sample ID :** P4722-15L **SDG No.:** P4722

**Matrix (soil/water):** Water **Level (low/med):** LOW

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 29.5 | J | 250 | U | 100.0 | | P |
| Antimony | 2.70 | J | 125 | U | 100.0 | | P |
| Arsenic | 10.0 | U | 50.0 | U | | | P |
| Barium | 76.6 | | 79.1 | J | 3 | | P |
| Beryllium | 3.00 | U | 15.0 | U | | | P |
| Cadmium | 0.32 | J | 15.0 | U | 100.0 | | P |
| Calcium | 167000 | | 177000 | | 6 | | P |
| Chromium | 1.28 | J | 25.0 | U | 100.0 | | P |
| Cobalt | 15.0 | U | 75.0 | U | | | P |
| Copper | 10.4 | | 50.0 | U | 100.0 | | P |
| Iron | 96.2 | | 109 | J | 13 | | P |
| Lead | 12.8 | | 30.0 | U | 100.0 | | P |
| Magnesium | 6910 | | 7300 | | 6 | | P |
| Manganese | 21.7 | | 23.5 | J | 8 | | P |
| Mercury | 0.20 | U | 1.00 | U | | | CV |
| Nickel | 3.85 | J | 4.77 | J | 24 | | P |
| Potassium | 3330 | | 5000 | U | 100.0 | | P |
| Selenium | 10.0 | U | 50.0 | U | | | P |
| Silver | 5.00 | U | 25.0 | U | | | P |
| Sodium | 19600 | | 17400 | | 11 | | P |
| Thallium | 20.0 | U | 100 | U | | | P |
| Vanadium | 20.0 | U | 100 | U | | | P |
| Zinc | 55.1 | | 55.5 | J | 1 | | P |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

WB-307-SB02L

**Lab Name:** Chemtech Consulting Group **Contract:** WALS01

**Lab Code:** CHEM **Lb No.:** lb133525 **Lab Sample ID :** P4718-03L **SDG No.:** P4722

**Matrix (soil/water):** Water **Level (low/med):** LOW

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Arsenic | 100 | U | 500 | U | | | P |
| Barium | 1850 | | 2020 | J | 9 | | P |
| Cadmium | 30.0 | U | 150 | U | | | P |
| Chromium | 16.1 | J | 250 | U | 100.0 | | P |
| Lead | 60.0 | U | 300 | U | | | P |
| Mercury | 2.00 | U | 10.0 | U | | | CV |
| Selenium | 100 | U | 500 | U | | | P |
| Silver | 50.0 | U | 250 | U | | | P |

# METAL PREPARATION & INSTRUMENT DATA

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Al | Ca | Fe | Mg | Ag |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | -0.0002060 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | -0.0000440 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000930 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | -0.0075970 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0007850 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | -0.0000920 | 0.0000000 | 0.0000380 | 0.0000000 | 0.0000000 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | -0.0001440 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | -0.0001490 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.402 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0001050 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: As | Ba | Be | Cd | Co |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0002870 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0009530 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0039600 |
| Lead | 220.353 | 0.0000000 | 0.0003170 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0003570 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0054900 |
| Vanadium | 292.402 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Cr | Cu | K | Mn | Mo |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000590 | 0.0000000 | 0.0396900 |
| Antimony | 206.833 | 0.0122000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | -0.0029000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0004900 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0000710 | -0.0003400 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000070 | 0.0002200 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0007860 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0006510 | 0.0020500 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000730 | 0.0000000 | -0.0015250 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001400 | -0.0008600 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0007460 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0000120 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0017400 | -0.0100400 |
| Vanadium | 292.402 | -0.0025100 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0072000 |
| Zinc | 213.800 | 0.0000000 | 0.0009010 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Na | Ni | Pb | Sb | Se |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0012800 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | -0.0047000 | 0.0036100 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | -0.0017000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0006580 | 0.0000000 | 0.0000000 | 0.0001290 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0003330 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.402 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0067600 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Sn | Ti | Tl | V | Zn |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | -0.0035600 | -0.0007970 | 0.0000000 | -0.0018900 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000630 | 0.0001280 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001110 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0018800 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | 0.0003840 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | -0.0003610 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | -0.0007420 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | -0.0039700 | 0.0000000 | -0.0115600 | 0.0000000 |
| Vanadium | 292.402 | 0.0000000 | 0.0005320 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Al | Ca | Fe | Mg | Ag |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | -0.0000440 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000930 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | -0.0000920 | 0.0000000 | 0.0000380 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | -0.0001440 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | -0.0001490 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: As | Ba | Be | Cd | Co |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0002870 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0003170 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0003570 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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

# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Cr | Cu | K | Mn | Mo |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | -0.0029000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0004900 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000070 | 0.0002200 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001400 | -0.0008600 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0007460 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0000120 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Na | Ni | Pb | Sb | Se |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0006580 | 0.0000000 | 0.0000000 | 0.0001290 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0003330 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Case No.:** P4722 **SAS No.:** P4722

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Sn | Ti | Tl | V | Zn |
|---|---|---|---|---|---|---|
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000630 | 0.0001280 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001110 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | -0.0003610 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | -0.0007420 | 0.0000000 | 0.0000000 | 0.0000000 |

# METAL PREPARATION & ANALYICAL SUMMARY

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Method:**

**Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB164869** | | | | | | |
| P4722-05 | WC-1(0-6) | SAM | WATER | 11/11/2024 | 50.0 | 25.0 | |
| P4722-10 | WC-2(0-6) | SAM | WATER | 11/11/2024 | 50.0 | 25.0 | |
| P4722-15 | WC-3(0-6) | SAM | WATER | 11/11/2024 | 50.0 | 25.0 | |
| P4722-15DUP | WC-3(0-6)DUP | DUP | WATER | 11/11/2024 | 50.0 | 25.0 | |
| P4722-15MS | WC-3(0-6)MS | MS | WATER | 11/11/2024 | 50.0 | 25.0 | |
| P4722-15MSD | WC-3(0-6)MSD | MSD | WATER | 11/11/2024 | 50.0 | 25.0 | |
| PB164869BL | PB164869BL | MB | WATER | 11/11/2024 | 50.0 | 25.0 | |
| PB164869BS | PB164869BS | LCS | WATER | 11/11/2024 | 50.0 | 25.0 | |
| PB164869TB | PB164869TB | MB | WATER | 11/11/2024 | 50.0 | 25.0 | |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Method:**

**Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB164892** | | | | | | |
| P4722-05 | WC-1(0-6) | SAM | WATER | 11/11/2024 | 30.0 | 30.0 | |
| P4722-10 | WC-2(0-6) | SAM | WATER | 11/11/2024 | 30.0 | 30.0 | |
| P4722-15 | WC-3(0-6) | SAM | WATER | 11/11/2024 | 30.0 | 30.0 | |
| P4722-15DUP | WC-3(0-6)DUP | DUP | WATER | 11/11/2024 | 30.0 | 30.0 | |
| P4722-15MS | WC-3(0-6)MS | MS | WATER | 11/11/2024 | 30.0 | 30.0 | |
| P4722-15MSD | WC-3(0-6)MSD | MSD | WATER | 11/11/2024 | 30.0 | 30.0 | |
| PB164892BL | PB164892BL | MB | WATER | 11/11/2024 | 30.0 | 30.0 | |
| PB164892BS | PB164892BS | LCS | WATER | 11/11/2024 | 30.0 | 30.0 | |
| PB164892TB | PB164892TB | MB | WATER | 11/11/2024 | 30.0 | 30.0 | |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Method:**

**Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB164768** | | | | | | |
| P4718-03DUP | WB-307-SB02DUP | DUP | WATER | 11/07/2024 | 5.0 | 25.0 | |
| P4718-03MS | WB-307-SB02MS | MS | WATER | 11/07/2024 | 5.0 | 25.0 | |
| P4718-03MSD | WB-307-SB02MSD | MSD | WATER | 11/07/2024 | 5.0 | 25.0 | |
| P4722-04 | WC-1(0-6) | SAM | WATER | 11/07/2024 | 5.0 | 25.0 | |
| P4722-09 | WC-2(0-6) | SAM | WATER | 11/07/2024 | 5.0 | 25.0 | |
| P4722-14 | WC-3(0-6) | SAM | WATER | 11/07/2024 | 5.0 | 25.0 | |
| PB164694TB | PB164694TB | MB | WATER | 11/07/2024 | 5.0 | 25.0 | |
| PB164768BL | PB164768BL | MB | WATER | 11/07/2024 | 5.0 | 25.0 | |
| PB164768BS | PB164768BS | LCS | WATER | 11/07/2024 | 5.0 | 25.0 | |

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Contract:** WALS01 **Lab Code:** CHEM **Method:**

**Case No.:** P4722 **SAS No.:** P4722

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB164791** | | | | | | |
| P4718-03DUP | WB-307-SB02DUP | DUP | WATER | 11/07/2024 | 3.0 | 30.0 | |
| P4718-03MS | WB-307-SB02MS | MS | WATER | 11/07/2024 | 3.0 | 30.0 | |
| P4718-03MSD | WB-307-SB02MSD | MSD | WATER | 11/07/2024 | 3.0 | 30.0 | |
| P4722-04 | WC-1(0-6) | SAM | WATER | 11/07/2024 | 3.0 | 30.0 | |
| P4722-09 | WC-2(0-6) | SAM | WATER | 11/07/2024 | 3.0 | 30.0 | |
| P4722-14 | WC-3(0-6) | SAM | WATER | 11/07/2024 | 3.0 | 30.0 | |
| PB164694TB | PB164694TB | MB | WATER | 11/07/2024 | 3.0 | 30.0 | |
| PB164791BL | PB164791BL | MB | WATER | 11/07/2024 | 30.0 | 30.0 | |
| PB164791BS | PB164791BS | LCS | WATER | 11/07/2024 | 30.0 | 30.0 | |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** Walsh Construction Company II, LLC **Contract:** WALS01

**Lab code:** CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

**Instrument id number:** **Method:** **Run number:** LB133407

**Start date:** 11/12/2024 **End date:** 11/12/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1403 | HG |
| S0.2 | S0.2 | 1 | 1405 | HG |
| S2.5 | S2.5 | 1 | 1408 | HG |
| S5 | S5 | 1 | 1410 | HG |
| S7.5 | S7.5 | 1 | 1412 | HG |
| S10 | S10 | 1 | 1415 | HG |
| ICV83 | ICV83 | 1 | 1417 | HG |
| ICB83 | ICB83 | 1 | 1422 | HG |
| CCV75 | CCV75 | 1 | 1427 | HG |
| CCB75 | CCB75 | 1 | 1429 | HG |
| CRA | CRA | 1 | 1439 | HG |
| PB164892BL | PB164892BL | 1 | 1449 | HG |
| PB164892BS | PB164892BS | 1 | 1451 | HG |
| P4722-05 | WC-1(0-6) | 1 | 1453 | HG |
| P4722-10 | WC-2(0-6) | 1 | 1456 | HG |
| P4722-15 | WC-3(0-6) | 1 | 1458 | HG |
| P4722-15DUP | WC-3(0-6)DUP | 1 | 1500 | HG |
| P4722-15MS | WC-3(0-6)MS | 1 | 1503 | HG |
| CCV76 | CCV76 | 1 | 1505 | HG |
| CCB76 | CCB76 | 1 | 1507 | HG |
| P4722-15MSD | WC-3(0-6)MSD | 1 | 1509 | HG |
| CCV77 | CCV77 | 1 | 1532 | HG |
| CCB77 | CCB77 | 1 | 1537 | HG |
| CCV78 | CCV78 | 1 | 1559 | HG |
| CCB78 | CCB78 | 1 | 1601 | HG |
| PB164892TB | PB164892TB | 1 | 1606 | HG |
| P4722-15L | WC-3(0-6)L | 5 | 1610 | HG |
| CCV79 | CCV79 | 1 | 1625 | HG |
| CCB79 | CCB79 | 1 | 1627 | HG |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** Walsh Construction Company II, LLC **Contract:** WALS01

**Lab code:** CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

**Instrument id number:** **Method:** **Run number:** LB133457

**Start date:** 11/14/2024 **End date:** 11/14/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1333 | 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 | 1337 | 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 | 1342 | 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 | 1346 | 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 | 1350 | 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 | 1354 | 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 | 1358 | 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 | 1410 | 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 | 1436 | 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 | 1440 | 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 | 1454 | 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 | 1518 | 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 | 1522 | 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 | 1527 | 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 | 1535 | 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 | 1540 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB164869TB | PB164869TB | 1 | 1601 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB164869BL | PB164869BL | 1 | 1605 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB164869BS | PB164869BS | 1 | 1609 | 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 | 1627 | 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 | 1631 | 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 | 1723 | 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 | 1727 | 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 | 1812 | 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 | 1817 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4722-05 | WC-1(0-6) | 1 | 1858 | 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 | 1903 | 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 | 1907 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4722-10 | WC-2(0-6) | 1 | 1911 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4722-15 | WC-3(0-6) | 1 | 1916 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4722-15DUP | WC-3(0-6)DUP | 1 | 1920 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4722-15L | WC-3(0-6)L | 5 | 1925 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4722-15MS | WC-3(0-6)MS | 1 | 1929 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4722-15MSD | WC-3(0-6)MSD | 1 | 1933 | 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 | 1955 | 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 | 1959 | 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 | 2047 | 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 | 2142 | 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 | 2204 | 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 | 2208 | 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 | 2258 | 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:** Walsh Construction Company II, LLC **Contract:** WALS01

**Lab code:** CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

**Instrument id number:** **Method:** **Run number:** LB133457

**Start date:** 11/14/2024 **End date:** 11/14/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| CCB10 | CCB10 | 1 | 2303 | 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:** Walsh Construction Company II, LLC **Contract:** WALS01

**Lab code:** CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

**Instrument id number:** **Method:** **Run number:** LB133352

**Start date:** 11/08/2024 **End date:** 11/08/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1004 | HG |
| S0.2 | S0.2 | 1 | 1007 | HG |
| S2.5 | S2.5 | 1 | 1009 | HG |
| S5 | S5 | 1 | 1011 | HG |
| S7.5 | S7.5 | 1 | 1013 | HG |
| S10 | S10 | 1 | 1016 | HG |
| ICV75 | ICV75 | 1 | 1019 | HG |
| ICB75 | ICB75 | 1 | 1021 | HG |
| CCV51 | CCV51 | 1 | 1023 | HG |
| CCB51 | CCB51 | 1 | 1025 | HG |
| CRA | CRA | 1 | 1028 | HG |
| PB164791BL | PB164791BL | 1 | 1038 | HG |
| PB164791BS | PB164791BS | 1 | 1040 | HG |
| P4718-03DUP | WB-307-SB02DUP | 1 | 1044 | HG |
| P4718-03MS | WB-307-SB02MS | 1 | 1047 | HG |
| P4718-03MSD | WB-307-SB02MSD | 1 | 1049 | HG |
| CCV52 | CCV52 | 1 | 1053 | HG |
| CCB52 | CCB52 | 1 | 1056 | HG |
| P4722-04 | WC-1(0-6) | 1 | 1100 | HG |
| P4722-09 | WC-2(0-6) | 1 | 1103 | HG |
| P4722-14 | WC-3(0-6) | 1 | 1105 | HG |
| CCV53 | CCV53 | 1 | 1121 | HG |
| CCB53 | CCB53 | 1 | 1123 | HG |
| PB164694TB | PB164694TB | 1 | 1125 | HG |
| P4718-03L | WB-307-SB02L | 5 | 1128 | HG |
| CCV54 | CCV54 | 1 | 1132 | HG |
| CCB54 | CCB54 | 1 | 1134 | HG |

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# metals
## - 14 -
## ANALYSIS RUN LOG

**Client:** Walsh Construction Company II, LLC **Contract:** WALS01

**Lab code:** CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

**Instrument id number:** **Method:** **Run number:** LB133365

**Start date:** 11/08/2024 **End date:** 11/08/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1334 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S1 | S1 | 1 | 1338 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S2 | S2 | 1 | 1343 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S3 | S3 | 1 | 1347 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S4 | S4 | 1 | 1351 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S5 | S5 | 1 | 1355 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICV01 | ICV01 | 1 | 1359 | Ag,As,Ba,Cd,Cr,Pb,Se |
| LLICV01 | LLICV01 | 1 | 1411 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICB01 | ICB01 | 1 | 1416 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CRI01 | CRI01 | 1 | 1420 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICSA01 | ICSA01 | 1 | 1424 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICSAB01 | ICSAB01 | 1 | 1430 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV01 | CCV01 | 1 | 1444 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB01 | CCB01 | 1 | 1450 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV02 | CCV02 | 1 | 1529 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB02 | CCB02 | 1 | 1533 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P4722-04 | WC-1(0-6) | 1 | 1606 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P4722-09 | WC-2(0-6) | 1 | 1610 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P4722-14 | WC-3(0-6) | 1 | 1615 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV03 | CCV03 | 1 | 1623 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB03 | CCB03 | 1 | 1628 | Ag,As,Ba,Cd,Cr,Pb,Se |
| PB164694TB | PB164694TB | 1 | 1654 | Ag,As,Ba,Cd,Cr,Pb,Se |
| PB164768BL | PB164768BL | 1 | 1659 | Ag,As,Ba,Cd,Cr,Pb,Se |
| PB164768BS | PB164768BS | 1 | 1703 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV04 | CCV04 | 1 | 1716 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB04 | CCB04 | 1 | 1722 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV05 | CCV05 | 1 | 1804 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB05 | CCB05 | 1 | 1808 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV06 | CCV06 | 1 | 1855 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB06 | CCB06 | 1 | 1859 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV07 | CCV07 | 1 | 1947 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB07 | CCB07 | 1 | 1951 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV08 | CCV08 | 1 | 2048 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB08 | CCB08 | 1 | 2057 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV09 | CCV09 | 1 | 2150 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB09 | CCB09 | 1 | 2155 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV10 | CCV10 | 1 | 2324 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB10 | CCB10 | 1 | 2335 | Ag,As,Ba,Cd,Cr,Pb,Se |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** Walsh Construction Company II, LLC **Contract:** WALS01

**Lab code:** CHEM **Case no.:** P4722 **Sas no.:** P4722 **Sdg no.:** P4722

**Instrument id number:** **Method:** **Run number:** LB133525

**Start date:** 11/19/2024 **End date:** 11/19/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1940 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S1 | S1 | 1 | 1945 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S2 | S2 | 1 | 1949 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S3 | S3 | 1 | 1953 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S4 | S4 | 1 | 1958 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S5 | S5 | 1 | 2002 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICV01 | ICV01 | 1 | 2006 | Ag,As,Ba,Cd,Cr,Pb,Se |
| LLICV01 | LLICV01 | 1 | 2010 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICB01 | ICB01 | 1 | 2014 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CRI01 | CRI01 | 1 | 2019 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICSA01 | ICSA01 | 1 | 2023 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICSAB01 | ICSAB01 | 1 | 2027 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV01 | CCV01 | 1 | 2038 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB01 | CCB01 | 1 | 2047 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P4718-03DUP | WB-307-SB02DUP | 1 | 2056 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P4718-03L | WB-307-SB02L | 5 | 2101 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P4718-03MS | WB-307-SB02MS | 1 | 2105 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P4718-03MSD | WB-307-SB02MSD | 1 | 2114 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P4718-03A | WB-307-SB02A | 1 | 2118 | Ba |
| CCV02 | CCV02 | 1 | 2136 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB02 | CCB02 | 1 | 2142 | Ag,As,Ba,Cd,Cr,Pb,Se |

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P4722 | **OrderDate:** | 11/5/2024 3:33:08 PM |
| **Client:** | Walsh Construction Company II, LLC | **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 |
| **Contact:** | Kayla Timony | **Location:** | L23,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P4722-03** | **WC-1(0-6)** | **SOIL** | | | **11/05/24 12:40** | | | **11/05/24** |
| | | | Ammonia | SM4500-NH3 | | 11/07/24 | 11/08/24 13:17 | |
| | | | COD | SM5220 D | | | 11/11/24 14:02 | |
| | | | Cyanide | 9012B | | 11/07/24 | 11/07/24 13:44 | |
| | | | Hexavalent Chromium | 7196A | | 11/08/24 | 11/08/24 11:54 | |
| | | | Oil and Grease | 9071B | | | 11/08/24 09:30 | |
| | | | Paint Filter | 9095B | | | 11/06/24 11:22 | |
| | | | Trivalent Chromium | 6010D | | | 11/07/24 21:29 | |
| | | | TS | SM2540 B | | | 11/06/24 11:00 | |
| | | | TVS | 160.4 | | | 11/06/24 15:45 | |
| **P4722-04** | **WC-1(0-6)** | **SOIL** | | | **11/05/24 12:40** | | | **11/05/24** |
| | | | Corrosivity | 9045D | | | 11/06/24 16:47 | |
| | | | Ignitability | 1030 | | | 11/07/24 12:37 | |
| | | | Reactive Cyanide | 9012B | | 11/06/24 | 11/06/24 15:34 | |
| | | | Reactive Sulfide | 9034 | | 11/06/24 | 11/06/24 17:15 | |

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# LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **P4722-08** | **WC-2(0-6)** | **SOIL** | | | **11/05/24 10:45** | | **11/05/24** |
| | | | Ammonia | SM4500-NH3 | 11/07/24 | 11/08/24 13:17 | |
| | | | COD | SM5220 D | | 11/11/24 14:02 | |
| | | | Cyanide | 9012B | 11/07/24 | 11/07/24 14:19 | |
| | | | Hexavalent Chromium | 7196A | 11/08/24 | 11/08/24 11:55 | |
| | | | Oil and Grease | 9071B | | 11/08/24 09:30 | |
| | | | Paint Filter | 9095B | | 11/06/24 11:30 | |
| | | | Trivalent Chromium | 6010D | | 11/07/24 21:33 | |
| | | | TS | SM2540 B | | 11/06/24 11:00 | |
| | | | TVS | 160.4 | | 11/06/24 15:45 | |
| **P4722-09** | **WC-2(0-6)** | **SOIL** | | | **11/05/24 10:45** | | **11/05/24** |
| | | | Corrosivity | 9045D | | 11/06/24 16:50 | |
| | | | Ignitability | 1030 | | 11/07/24 12:45 | |
| | | | Reactive Cyanide | 9012B | 11/06/24 | 11/06/24 15:40 | |
| | | | Reactive Sulfide | 9034 | 11/06/24 | 11/06/24 17:18 | |
| **P4722-13** | **WC-3(0-6)** | **SOIL** | | | **11/05/24 09:10** | | **11/05/24** |
| | | | Ammonia | SM4500-NH3 | 11/07/24 | 11/08/24 14:24 | |
| | | | COD | SM5220 D | | 11/11/24 14:04 | |
| | | | Cyanide | 9012B | 11/07/24 | 11/07/24 14:19 | |

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# LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Hexavalent Chromium | 7196A | | 11/08/24 | 11/08/24 11:56 |
| | | | Oil and Grease | 9071B | | | 11/08/24 09:30 |
| | | | Paint Filter | 9095B | | | 11/06/24 11:38 |
| | | | Trivalent Chromium | 6010D | | | 11/07/24 21:38 |
| | | | TS | SM2540 B | | | 11/06/24 11:00 |
| | | | TVS | 160.4 | | | 11/06/24 15:45 |
| **P4722-14** | **WC-3(0-6)** | **SOIL** | | | **11/05/24 09:10** | | **11/05/24** |
| | | | Corrosivity | 9045D | | | 11/06/24 16:52 |
| | | | Ignitability | 1030 | | | 11/07/24 12:52 |
| | | | Reactive Cyanide | 9012B | | 11/06/24 | 11/06/24 15:40 |
| | | | Reactive Sulfide | 9034 | | 11/06/24 | 11/06/24 17:20 |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 12:40 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-03 | Matrix: | SOIL |
| | | % Solid: | 93.8 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 7.10 | | 1 | 0.92 | 5.10 | mg/Kg | 11/07/24 14:30 | 11/08/24 13:17 | SM 4500-NH3 B plus G-11 |
| COD | 13900 | D | 5 | 290 | 2610 | mg/Kg | | 11/11/24 14:02 | SM 5220 D-11 |
| Cyanide | 0.046 | U | 1 | 0.046 | 0.26 | mg/Kg | 11/07/24 08:30 | 11/07/24 13:44 | 9012B |
| Hexavalent Chromium | 0.084 | U | 1 | 0.084 | 0.43 | mg/Kg | 11/08/24 08:50 | 11/08/24 11:54 | 7196A |
| Oil and Grease | 1050 | | 1 | 3.46 | 26.6 | mg/Kg | | 11/08/24 09:30 | SW9071B |
| Paint Filter | 1.00 | U | 1 | 1.00 | 1.00 | ml/100gm | | 11/06/24 11:22 | 9095B |
| Trivalent Chromium | 65.5 | | 1 | 0.53 | 0.53 | mg/Kg | | 11/07/24 21:29 | 6010D |
| TS | 91.0 | | 1 | 1.00 | 5.00 | % | | 11/06/24 11:00 | SM 2540 B-15 |
| TVS | 10.8 | | 1 | 1.00 | 10.0 | % | | 11/06/24 15:45 | 160.4 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 12:40 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-1(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-04 | Matrix: | SOIL |
| | | % Solid: | 100 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Corrosivity | 9.34 | H | 1 | 0 | 0 | pH | | 11/06/24 16:47 | 9045D |
| Ignitability | NO | | 1 | 0 | 0 | oC | | 11/07/24 12:37 | 1030 |
| Reactive Cyanide | 0.011 | J | 1 | 0.0087 | 0.050 | mg/Kg | 11/06/24 12:50 | 11/06/24 15:34 | 9012B |
| Reactive Sulfide | 3.18 | J | 1 | 0.19 | 10.0 | mg/Kg | 11/06/24 14:30 | 11/06/24 17:15 | 9034 |

Comments: pH result reported at temperature 24.7 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 10:45 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-08 | Matrix: | SOIL |
| | | % Solid: | 90.1 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 0.97 | U | 1 | 0.97 | 5.40 | mg/Kg | 11/07/24 14:30 | 11/08/24 13:17 | SM 4500-NH3 B plus G-11 |
| COD | 1030 | | 1 | 59.7 | 539 | mg/Kg | | 11/11/24 14:02 | SM 5220 D-11 |
| Cyanide | 0.058 | J | 1 | 0.047 | 0.26 | mg/Kg | 11/07/24 08:30 | 11/07/24 14:19 | 9012B |
| Hexavalent Chromium | 0.086 | U | 1 | 0.086 | 0.44 | mg/Kg | 11/08/24 08:50 | 11/08/24 11:55 | 7196A |
| Oil and Grease | 18300 | | 1 | 3.60 | 27.7 | mg/Kg | | 11/08/24 09:30 | SW9071B |
| Paint Filter | 1.00 | U | 1 | 1.00 | 1.00 | ml/100gm | | 11/06/24 11:30 | 9095B |
| Trivalent Chromium | 79.3 | | 1 | 0.56 | 0.56 | mg/Kg | | 11/07/24 21:33 | 6010D |
| TS | 87.6 | | 1 | 1.00 | 5.00 | % | | 11/06/24 11:00 | SM 2540 B-15 |
| TVS | 9.40 | J | 1 | 1.00 | 10.0 | % | | 11/06/24 15:45 | 160.4 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 10:45 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-2(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-09 | Matrix: | SOIL |
| | | % Solid: | 100 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Corrosivity | 9.07 | H | 1 | 0 | 0 | pH | | 11/06/24 16:50 | 9045D |
| Ignitability | NO | | 1 | 0 | 0 | oC | | 11/07/24 12:45 | 1030 |
| Reactive Cyanide | 0.013 | J | 1 | 0.0088 | 0.050 | mg/Kg | 11/06/24 12:50 | 11/06/24 15:40 | 9012B |
| Reactive Sulfide | 4.75 | J | 1 | 0.19 | 10.0 | mg/Kg | 11/06/24 14:30 | 11/06/24 17:18 | 9034 |

Comments: pH result reported at temperature 24.7 °C

U = Not Detected
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LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 09:10 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-13 | Matrix: | SOIL |
| | | % Solid: | 86.6 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units(Dry Weight) | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | 2.20 | J | 1 | 1.00 | 5.60 | mg/Kg | 11/07/24 14:30 | 11/08/24 14:24 | SM 4500-NH3 B plus G-11 |
| COD | 6650 | | 1 | 62.1 | 561 | mg/Kg | | 11/11/24 14:04 | SM 5220 D-11 |
| Cyanide | 0.20 | J | 1 | 0.050 | 0.29 | mg/Kg | 11/07/24 08:30 | 11/07/24 14:19 | 9012B |
| Hexavalent Chromium | 0.090 | U | 1 | 0.090 | 0.46 | mg/Kg | 11/08/24 08:50 | 11/08/24 11:56 | 7196A |
| Oil and Grease | 2610 | | 1 | 3.75 | 28.8 | mg/Kg | | 11/08/24 09:30 | SW9071B |
| Paint Filter | 1.00 | U | 1 | 1.00 | 1.00 | ml/100gm | | 11/06/24 11:38 | 9095B |
| Trivalent Chromium | 18.2 | | 1 | 0.58 | 0.58 | mg/Kg | | 11/07/24 21:38 | 6010D |
| TS | 88.0 | | 1 | 1.00 | 5.00 | % | | 11/06/24 11:00 | SM 2540 B-15 |
| TVS | 10.4 | | 1 | 1.00 | 10.0 | % | | 11/06/24 15:45 | 160.4 |

Comments:

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LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time

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OR = Over Range
N =Spiked sample recovery not within control limits

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Walsh Construction Company II, LLC | Date Collected: | 11/05/24 09:10 |
| Project: | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | Date Received: | 11/05/24 |
| Client Sample ID: | WC-3(0-6) | SDG No.: | P4722 |
| Lab Sample ID: | P4722-14 | Matrix: | SOIL |
| | | % Solid: | 100 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|---|---|---|---|---|---|---|---|---|---|
| Corrosivity | 8.70 | H | 1 | 0 | 0 | pH | | 11/06/24 16:52 | 9045D |
| Ignitability | NO | | 1 | 0 | 0 | oC | | 11/07/24 12:52 | 1030 |
| Reactive Cyanide | 0.012 | J | 1 | 0.0088 | 0.050 | mg/Kg | 11/06/24 12:50 | 11/06/24 15:40 | 9012B |
| Reactive Sulfide | 1.59 | J | 1 | 0.19 | 10.0 | mg/Kg | 11/06/24 14:30 | 11/06/24 17:20 | 9034 |

Comments: pH result reported at temperature 24.6 °C

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

A
B
C
D

# QC RESULT SUMMARY

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# Initial and Continuing Calibration Verification

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 **RunNo.:** LB133321

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID: ICV1** | | | | | | |
| Reactive Cyanide | mg/L | 0.096 | 0.099 | 97 | 85-115 | 11/06/2024 |
| **Sample ID: CCV1** | | | | | | |
| Reactive Cyanide | mg/L | 0.24 | 0.25 | 96 | 90-110 | 11/06/2024 |
| **Sample ID: CCV2** | | | | | | |
| Reactive Cyanide | mg/L | 0.24 | 0.25 | 96 | 90-110 | 11/06/2024 |
| **Sample ID: CCV3** | | | | | | |
| Reactive Cyanide | mg/L | 0.24 | 0.25 | 96 | 90-110 | 11/06/2024 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Walsh Construction Company II, LLC | **SDG No.:** | P4722 |
| **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | **RunNo.:** | LB133322 |

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID:** | **ICV** | | | | | | |
| Corrosivity | | pH | 7.02 | 7 | 100 | 90-110 | 11/06/2024 |
| **Sample ID:** | **CCV1** | | | | | | |
| Corrosivity | | pH | 2.01 | 2.00 | 101 | 90-110 | 11/06/2024 |
| **Sample ID:** | **CCV2** | | | | | | |
| Corrosivity | | pH | 12.02 | 12.00 | 100 | 90-110 | 11/06/2024 |
| **Sample ID:** | **CCV3** | | | | | | |
| Corrosivity | | pH | 2.01 | 2.00 | 101 | 90-110 | 11/06/2024 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Walsh Construction Company II, LLC | **SDG No.:** | P4722 |
| **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | **RunNo.:** | LB133336 |

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID:** | **ICV1** | | | | | | |
| Cyanide | | mg/L | 0.096 | 0.099 | 97 | 90-110 | 11/07/2024 |
| **Sample ID:** | **CCV1** | | | | | | |
| Cyanide | | mg/L | 0.25 | 0.25 | 100 | 90-110 | 11/07/2024 |
| **Sample ID:** | **CCV2** | | | | | | |
| Cyanide | | mg/L | 0.25 | 0.25 | 100 | 90-110 | 11/07/2024 |

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# Initial and Continuing Calibration Verification

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 **RunNo.:** LB133351

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|
| **Sample ID: CCV1** | | | | | | |
| Hexavalent Chromium | mg/L | 0.500 | 0.5 | 100 | 90-110 | 11/08/2024 |
| **Sample ID: CCV2** | | | | | | |
| Hexavalent Chromium | mg/L | 0.501 | 0.5 | 100 | 90-110 | 11/08/2024 |
| **Sample ID: CCV3** | | | | | | |
| Hexavalent Chromium | mg/L | 0.500 | 0.5 | 100 | 90-110 | 11/08/2024 |
| **Sample ID: ICV** | | | | | | |
| Hexavalent Chromium | mg/L | 0.504 | 0.5 | 101 | 90-110 | 11/08/2024 |

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# Initial and Continuing Calibration Verification

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 **RunNo.:** LB133358

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| Sample ID: | ICV1 | | | | | | |
| Ammonia as N | | mg/L | 0.99 | 1 | 99 | 90-110 | 11/08/2024 |
| Sample ID: | CCV1 | | | | | | |
| Ammonia as N | | mg/L | 1 | 1 | 100 | 90-110 | 11/08/2024 |
| Sample ID: | CCV2 | | | | | | |
| Ammonia as N | | mg/L | 0.97 | 1 | 97 | 90-110 | 11/08/2024 |
| Sample ID: | CCV3 | | | | | | |
| Ammonia as N | | mg/L | 1 | 1 | 100 | 90-110 | 11/08/2024 |
| Sample ID: | CCV4 | | | | | | |
| Ammonia as N | | mg/L | 1 | 1 | 100 | 90-110 | 11/08/2024 |
| Sample ID: | CCV5 | | | | | | |
| Ammonia as N | | mg/L | 0.96 | 1 | 96 | 90-110 | 11/08/2024 |

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# Initial and Continuing Calibration Verification

| | | | |
|---|---|---|---|
| **Client:** | Walsh Construction Company II, LLC | **SDG No.:** | P4722 |
| **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | **RunNo.:** | LB133394 |

| Analyte | | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID:** | **ICV** | | | | | | |
| COD | | mg/L | 51.341 | 50 | 103 | 95-105 | 10/14/2024 |
| **Sample ID:** | **CCV1** | | | | | | |
| COD | | mg/L | 50.336 | 50 | 101 | 95-105 | 11/11/2024 |
| **Sample ID:** | **CCV2** | | | | | | |
| COD | | mg/L | 50.336 | 50 | 101 | 95-105 | 11/11/2024 |

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# Initial and Continuing Calibration Blank Summary

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 **RunNo.:** LB133321

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: ICB1** | | | | | | | |
| Reactive Cyanide | mg/L | 0.0013 | 0.0025 | J | 0.00099 | 0.005 | 11/06/2024 |
| **Sample ID: CCB1** | | | | | | | |
| Reactive Cyanide | mg/L | 0.0016 | 0.0025 | J | 0.00099 | 0.005 | 11/06/2024 |
| **Sample ID: CCB2** | | | | | | | |
| Reactive Cyanide | mg/L | 0.0013 | 0.0025 | J | 0.00099 | 0.005 | 11/06/2024 |
| **Sample ID: CCB3** | | | | | | | |
| Reactive Cyanide | mg/L | < 0.0025 | 0.0025 | U | 0.00099 | 0.005 | 11/06/2024 |

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# Initial and Continuing Calibration Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Walsh Construction Company II, LLC | **SDG No.:** | P4722 |
| **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | **RunNo.:** | LB133336 |

| Analyte | | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| Sample ID: | ICB1 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00099 | 0.005 | 11/07/2024 |
| Sample ID: | CCB1 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00099 | 0.005 | 11/07/2024 |
| Sample ID: | CCB2 | | | | | | | |
| Cyanide | | mg/L | < 0.0025 | 0.0025 | U | 0.00099 | 0.005 | 11/07/2024 |

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# Initial and Continuing Calibration Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Walsh Construction Company II, LLC | **SDG No.:** | P4722 |
| **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | **RunNo.:** | LB133351 |

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: ICB** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0027 | 0.01 | 11/08/2024 |
| **Sample ID: CCB1** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0027 | 0.01 | 11/08/2024 |
| **Sample ID: CCB2** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0027 | 0.01 | 11/08/2024 |
| **Sample ID: CCB3** | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0027 | 0.01 | 11/08/2024 |

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# Initial and Continuing Calibration Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Walsh Construction Company II, LLC | **SDG No.:** | P4722 |
| **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | **RunNo.:** | LB133358 |

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: ICB1** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 11/08/2024 |
| **Sample ID: CCB1** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 11/08/2024 |
| **Sample ID: CCB2** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 11/08/2024 |
| **Sample ID: CCB3** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 11/08/2024 |
| **Sample ID: CCB4** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 11/08/2024 |
| **Sample ID: CCB5** | | | | | | | |
| Ammonia as N | mg/L | < 0.0500 | 0.0500 | U | 0.045 | 0.1 | 11/08/2024 |

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# Initial and Continuing Calibration Blank Summary

| | | | |
|---|---|---|---|
| **Client:** | Walsh Construction Company II, LLC | **SDG No.:** | P4722 |
| **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | **RunNo.:** | LB133394 |

| Analyte | | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| Sample ID: | ICB | | | | | | | |
| COD | | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 10/14/2024 |
| Sample ID: | CCB1 | | | | | | | |
| COD | | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 11/11/2024 |
| Sample ID: | CCB2 | | | | | | | |
| COD | | mg/L | < 5.0000 | 5.0000 | U | 2.35 | 10 | 11/11/2024 |

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# Preparation Blank Summary

**Client:** Walsh Construction Company II, LLC **SDG No.:** P4722

**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|---|---|---|---|---|---|---|
| **Sample ID: LB133331BL** | | | | | | | |
| TS | % | < 2.5000 | 2.5000 | U | 1 | 5 | 11/06/2024 |
| **Sample ID: LB133332BL** | | | | | | | |
| TVS | % | < 5.0000 | 5.0000 | U | 1 | 10 | 11/06/2024 |
| **Sample ID: LB133347BL** | | | | | | | |
| Oil and Grease | mg/Kg | 4.99 | 12.5000 | J | 3.25 | 25 | 11/08/2024 |
| **Sample ID: LB133394BL** | | | | | | | |
| COD | mg/Kg | < 250.0000 | 250.0000 | U | 55.4 | 500 | 11/11/2024 |
| **Sample ID: PB164675BL** | | | | | | | |
| Reactive Sulfide | mg/Kg | < 5.0000 | 5.0000 | U | 0.186 | 10 | 11/06/2024 |
| **Sample ID: PB164717BL** | | | | | | | |
| Reactive Cyanide | mg/Kg | 0.012 | 0.0250 | J | 0.0088 | 0.05 | 11/06/2024 |
| **Sample ID: PB164738BL** | | | | | | | |
| Hexavalent Chromium | mg/Kg | < 0.2000 | 0.2000 | U | 0.079 | 0.4 | 11/08/2024 |
| **Sample ID: PB164755BL** | | | | | | | |
| Cyanide | mg/Kg | < 0.1250 | 0.1250 | U | 0.044 | 0.25 | 11/07/2024 |
| **Sample ID: PB164763BL** | | | | | | | |
| Ammonia as N | mg/Kg | < 2.5000 | 2.5000 | U | 0.9 | 5 | 11/08/2024 |

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# Matrix Spike Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-03
**Client ID:** WC-1(0-6)MS
**Percent Solids for Spike Sample:** 93.8

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | 75-125 | 1.80 | | 0.046 | U | 2.1 | 1 | 86 | | 11/07/2024 |

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# Matrix Spike Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-03
**Client ID:** WC-1(0-6)MSD
**Percent Solids for Spike Sample:** 93.8

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | 75-125 | 1.80 | | 0.046 | U | 2.1 | 1 | 86 | | 11/07/2024 |

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# Matrix Spike Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-08
**Client ID:** WC-2(0-6)MS
**Percent Solids for Spike Sample:** 90.1

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COD | mg/Kg | 75-125 | 3720 | | 1030 | | 2720 | 1 | 99 | | 11/11/2024 |

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# Matrix Spike Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-08
**Client ID:** WC-2(0-6)MSD
**Percent Solids for Spike Sample:** 90.1

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COD | mg/Kg | 75-125 | 3830 | | 1030 | | 2720 | 1 | 103 | | 11/11/2024 |

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# Matrix Spike Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-13
**Client ID:** WC-3(0-6)MS
**Percent Solids for Spike Sample:** 86.6

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | mg/Kg | 75-125 | 55.8 | | 2.20 | J | 56.6 | 1 | 95 | | 11/08/2024 |
| Oil and Grease | mg/Kg | 75-125 | 2140 | | 2610 | | 115 | 1 | -409 | * | 11/08/2024 |

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# Matrix Spike Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-13
**Client ID:** WC-3(0-6)MSD
**Percent Solids for Spike Sample:** 86.6

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia as N | mg/Kg | 75-125 | 56.1 | | 2.20 | J | 56.1 | 1 | 96 | | 11/08/2024 |
| Oil and Grease | mg/Kg | 75-125 | 2160 | | 2610 | | 115 | 1 | -393 | * | 11/08/2024 |

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# Matrix Spike Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4739-13
**Client ID:** TP-11MS
**Percent Solids for Spike Sample:** 91.9

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | mg/Kg | 75-125 | 1410 | | 0.086 | U | 1400 | 40 | 101 | | 11/08/2024 |

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# Matrix Spike Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4739-13
**Client ID:** TP-11MS
**Percent Solids for Spike Sample:** 91.9

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | mg/Kg | 85-115 | 41.0 | | 0.086 | U | 43.5 | 2 | 94 | | 11/08/2024 |

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# Matrix Spike Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4739-13
**Client ID:** TP-11MS
**Percent Solids for Spike Sample:** 91.9

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | mg/Kg | 75-125 | 34.2 | | 0.086 | U | 43.5 | 2 | 79 | | 11/08/2024 |

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# Duplicate Sample Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4700-01
**Client ID:** MH-8DUP
**Percent Solids for Spike Sample:** 91.2

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Ignitability | oC | +/-20 | NO | | NO | | 1 | 0 | | 11/07/2024 |

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# Duplicate Sample Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4700-04
**Client ID:** MH-8DUP
**Percent Solids for Spike Sample:** 100

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Reactive Sulfide | mg/Kg | +/-20 | 1.58 | J | 1.58 | J | 1 | 0 | | 11/06/2024 |

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# Duplicate Sample Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4719-01
**Client ID:** BAYAVE-STOCKPILEDUP
**Percent Solids for Spike Sample:** 97.4

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Paint Filter | ml/100gm | +/-20 | 1.00 | U | 1.00 | U | 1 | 0 | | 11/06/2024 |

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# Duplicate Sample Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-03
**Client ID:** WC-1(0-6)DUP
**Percent Solids for Spike Sample:** 93.8

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | +/-20 | 0.046 | U | 0.045 | U | 1 | 0 | | 11/07/2024 |

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# Duplicate Sample Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-03
**Client ID:** WC-1(0-6)MSD
**Percent Solids for Spike Sample:** 93.8

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | mg/Kg | +/-20 | 1.80 | | 1.80 | | 1 | 0 | | 11/07/2024 |

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# Duplicate Sample Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-08
**Client ID:** WC-2(0-6)DUP
**Percent Solids for Spike Sample:** 90.1

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| COD | mg/Kg | +/-20 | 1030 | | 1090 | | 1 | 5.66 | | 11/11/2024 |

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# Duplicate Sample Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-08
**Client ID:** WC-2(0-6)MSD
**Percent Solids for Spike Sample:** 90.1

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| COD | mg/Kg | +/-20 | 3720 | | 3830 | | 1 | 2.91 | | 11/11/2024 |

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# Duplicate Sample Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-13
**Client ID:** WC-3(0-6)DUP
**Percent Solids for Spike Sample:** 86.6

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| TS | % | +/-5 | 88.0 | | 86.8 | | 1 | 1.37 | | 11/06/2024 |
| TVS | % | +/-5 | 10.4 | | 9.90 | J | 1 | 4.93 | | 11/06/2024 |
| Oil and Grease | mg/Kg | +/-20 | 2610 | | 2600 | | 1 | 0.49 | | 11/08/2024 |
| Ammonia as N | mg/Kg | +/-20 | 2.20 | J | 3.10 | J | 1 | 34 | * | 11/08/2024 |

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# Duplicate Sample Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-13
**Client ID:** WC-3(0-6)MSD
**Percent Solids for Spike Sample:** 86.6

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Oil and Grease | mg/Kg | +/-20 | 2140 | | 2160 | | 1 | 0.85 | | 11/08/2024 |
| Ammonia as N | mg/Kg | +/-20 | 55.8 | | 56.1 | | 1 | 1 | | 11/08/2024 |

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# Duplicate Sample Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4722-14
**Client ID:** WC-3(0-6)DUP
**Percent Solids for Spike Sample:** 100

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Reactive Cyanide | mg/Kg | +/-20 | 0.012 | J | 0.0088 | U | 1 | 200 | * | 11/06/2024 |
| Ignitability | oC | +/-20 | NO | | NO | | 1 | 0 | | 11/07/2024 |

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

# Duplicate Sample Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4739-13
**Client ID:** TP-11DUP
**Percent Solids for Spike Sample:** 91.9

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | mg/Kg | +/-20 | 0.086 | U | 0.085 | U | 1 | 0 | | 11/08/2024 |

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Fax : 908 789 8922

# Duplicate Sample Summary

**Client:** Walsh Construction Company II, LLC
**SDG No.:** P4722
**Project:** NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
**Sample ID:** P4739-16
**Client ID:** TP-11DUP
**Percent Solids for Spike Sample:** 100

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Corrosivity | pH | +/-20 | 10.1 | | 10.1 | | 1 | 0.1 | | 11/06/2024 |

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# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Walsh Construction Company II, LLC | **SDG No.:** | P4722 |
| **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | **Run No.:** | LB133347 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID LB133347BS** | | | | | | | | |
| Oil and Grease | mg/Kg | 100 | 94.8 | | 95 | 1 | 80-120 | 11/08/2024 |

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Fax : 908 789 8922

# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Walsh Construction Company II, LLC | **SDG No.:** | P4722 |
| **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | **Run No.:** | LB133394 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID** LB133394BS | | | | | | | | |
| COD | mg/Kg | 2500 | 2570 | | 103 | 1 | 90-110 | 11/11/2024 |

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Fax : 908 789 8922

# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Walsh Construction Company II, LLC | **SDG No.:** | P4722 |
| **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | **Run No.:** | LB133351 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID PB164738BS** | | | | | | | | |
| Hexavalent Chromium | mg/Kg | 20 | 20.2 | | 101 | 1 | 84-110 | 11/08/2024 |

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Fax : 908 789 8922

# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Walsh Construction Company II, LLC | **SDG No.:** | P4722 |
| **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | **Run No.:** | LB133336 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID** **PB164755BS** | | | | | | | | |
| Cyanide | mg/Kg | 5 | 4.80 | | 96 | 1 | 85-115 | 11/07/2024 |

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Fax : 908 789 8922

# Laboratory Control Sample Summary

| | | | |
|---|---|---|---|
| **Client:** | Walsh Construction Company II, LLC | **SDG No.:** | P4722 |
| **Project:** | NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2 | **Run No.:** | LB133358 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---|---|---|---|---|---|---|---|---|
| **Sample ID PB164763BS** | | | | | | | | |
| Ammonia as N | mg/Kg | 50 | 50.3 | | 101 | 1 | 90-110 | 11/08/2024 |