con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

June 18, 2014

Rob Smith
Cardno ATC Associates - West Springfield
73 Williams Franks Drive
West Springfield, MA 01089

Project Location: Chestnut St. School
Client Job Number:
Project Number: 081-28126.0287
Laboratory Work Order Number: 14F0442

Enclosed are results of analyses for samples received by the laboratory on June 10, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Cardno ATC Associates - West Springfield
73 Williams Franks Drive
West Springfield, MA 01089
ATTN: Rob Smith

REPORT DATE: 6/18/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 081-28126.0287

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 14F0442

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Chestnut St. School

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| Stockpile | 14F0442-01 | Product/Solid | | SW-846 1311 | |
| | | | | SW-846 6010C | |
| | | | | SW-846 7470A | |
| | | | | SW-846 8260C | |
| | | | | SW-846 8270D | |

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## CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

### SW-846 8260C

**Qualifications:**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

**Analyte & Samples(s) Qualified:**

**Bromochloromethane**

B097757-BS1, B097757-BSD1

Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.

**Analyte & Samples(s) Qualified:**

**Bromomethane, Chloromethane**

B097757-BS1, B097757-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

**Analyte & Samples(s) Qualified:**

**1,2,3-Trichlorobenzene, 2-Butanone (MEK), Naphthalene, Tetrahydrofuran**

14F0442-01[Stockpile], B097757-BLK1, B097757-BS1, B097757-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

**Analyte & Samples(s) Qualified:**

**1,4-Dioxane**

14F0442-01[Stockpile], B097757-BLK1, B097757-BS1, B097757-BSD1

### SW-846 8270D

**Qualifications:**

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

**Analyte & Samples(s) Qualified:**

**Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene**

14F0442-01[Stockpile], B097988-BLK1

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**SW-846 8260C**

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for "difficult analytes" where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chestnut St. School | Sample Description: | Work Order: 14F0442

Date Received: 6/10/2014

**Field Sample #: Stockpile** | Sampled: 6/9/2014 13:30

**Sample ID: 14F0442-01**

Sample Matrix: Product/Solid

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 0.092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| tert-Amyl Methyl Ether (TAME) | ND | 0.00092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Benzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Bromobenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Bromochloromethane | ND | 0.0037 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Bromodichloromethane | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Bromoform | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Bromomethane | ND | 0.0092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 2-Butanone (MEK) | ND | 0.037 | mg/Kg | 1 | V-05 | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| n-Butylbenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| sec-Butylbenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| tert-Butylbenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.00092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Carbon Disulfide | ND | 0.018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Carbon Tetrachloride | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Chlorobenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Chlorodibromomethane | ND | 0.00092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Chloroethane | ND | 0.0092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Chloroform | ND | 0.0037 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Chloromethane | ND | 0.0092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 2-Chlorotoluene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 4-Chlorotoluene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.00092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Dibromomethane | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.0092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,1-Dichloroethane | ND | 0.0092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,2-Dichloroethane | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,1-Dichloroethylene | ND | 0.0037 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,2-Dichloropropane | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,3-Dichloropropane | ND | 0.00092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 2,2-Dichloropropane | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,1-Dichloropropene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| cis-1,3-Dichloropropene | ND | 0.00092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| trans-1,3-Dichloropropene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Diethyl Ether | ND | 0.0092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Diisopropyl Ether (DIPE) | ND | 0.00092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,4-Dioxane | ND | 0.092 | mg/Kg | 1 | V-16 | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Ethylbenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chestnut St. School
Sample Description:
Work Order: 14F0442

Date Received: 6/10/2014

**Field Sample #: Stockpile**
Sampled: 6/9/2014 13:30

**Sample ID: 14F0442-01**

Sample Matrix: Product/Solid

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 2-Hexanone (MBK) | ND | 0.018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0037 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Methylene Chloride | ND | 0.0092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Naphthalene | ND | 0.0092 | mg/Kg | 1 | V-05 | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| n-Propylbenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Styrene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.00092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Tetrachloroethylene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Tetrahydrofuran | ND | 0.0092 | mg/Kg | 1 | V-05 | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Toluene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0037 | mg/Kg | 1 | V-05 | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Trichloroethylene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.0092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| Vinyl Chloride | ND | 0.0092 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| m+p Xylene | ND | 0.0037 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |
| o-Xylene | ND | 0.0018 | mg/Kg | 1 | | SW-846 8260C | 6/13/14 | 6/13/14 10:47 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 90.8 | 70-130 | | 6/13/14 10:47 |
| Toluene-d8 | 95.2 | 70-130 | | 6/13/14 10:47 |
| 4-Bromofluorobenzene | 82.6 | 70-130 | | 6/13/14 10:47 |

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Project Location: Chestnut St. School | Sample Description: | Work Order: 14F0442

Date Received: 6/10/2014

**Field Sample #: Stockpile** | Sampled: 6/9/2014 13:30

**Sample ID: 14F0442-01**

Sample Matrix: Product/Solid

**Semivolatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Acenaphthylene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Anthracene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Benzo(a)anthracene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Benzo(a)pyrene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Benzo(b)fluoranthene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Benzo(g,h,i)perylene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Benzo(k)fluoranthene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Chrysene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Dibenz(a,h)anthracene | ND | 0.84 | mg/Kg | 1 | V-20 | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Fluoranthene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Fluorene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Indeno(1,2,3-cd)pyrene | ND | 0.84 | mg/Kg | 1 | V-20 | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| 2-Methylnaphthalene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Naphthalene | 0.84 | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Phenanthrene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |
| Pyrene | ND | 0.84 | mg/Kg | 1 | | SW-846 8270D | 6/17/14 | 6/17/14 18:49 | CMR |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Nitrobenzene-d5 | 80.3 | 30-130 | | 6/17/14 18:49 |
| 2-Fluorobiphenyl | 89.0 | 30-130 | | 6/17/14 18:49 |
| p-Terphenyl-d14 | 71.1 | 30-130 | | 6/17/14 18:49 |

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Project Location: Chestnut St. School | Sample Description: | Work Order: 14F0442

Date Received: 6/10/2014

**Field Sample #: Stockpile** | Sampled: 6/9/2014 13:30

**Sample ID: 14F0442-01**

Sample Matrix: Product/Solid

**TCLP - Metals Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 0.010 | mg/L | 1 | | SW-846 6010C | 6/14/14 | 6/16/14 12:09 | OP |
| Mercury | ND | 0.00010 | mg/L | 1 | | SW-846 7470A | 6/14/14 | 6/16/14 12:00 | AMP |
| Barium | ND | 0.050 | mg/L | 1 | | SW-846 6010C | 6/17/14 | 6/18/14 12:28 | OP |
| Cadmium | ND | 0.0040 | mg/L | 1 | | SW-846 6010C | 6/14/14 | 6/16/14 12:09 | OP |
| Chromium | ND | 0.010 | mg/L | 1 | | SW-846 6010C | 6/14/14 | 6/16/14 12:09 | OP |
| Lead | ND | 0.010 | mg/L | 1 | | SW-846 6010C | 6/14/14 | 6/16/14 12:09 | OP |
| Selenium | ND | 0.050 | mg/L | 1 | | SW-846 6010C | 6/14/14 | 6/16/14 12:09 | OP |
| Silver | ND | 0.0050 | mg/L | 1 | | SW-846 6010C | 6/14/14 | 6/16/14 12:09 | OP |

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## Sample Extraction Data

**Prep Method: SW-846 3010A-SW-846 6010C** **Leachates were extracted on 6/13/2014 per SW-846 1311 in Batch B097749**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 14F0442-01RE1 [Stockpile] | B098040 | 50.0 | 50.0 | 06/17/14 |

**Prep Method: SW-846 3010A-SW-846 6010C** **Leachates were extracted on 6/13/2014 per SW-846 1311 in Batch B097749**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 14F0442-01 [Stockpile] | B097859 | 50.0 | 50.0 | 06/14/14 |

**Prep Method: SW-846 7470A Prep-SW-846 7470A** **Leachates were extracted on 6/13/2014 per SW-846 1311 in Batch B097749**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 14F0442-01 [Stockpile] | B097867 | 6.00 | 6.00 | 06/14/14 |

**Prep Method: SW-846 5035-SW-846 8260C**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 14F0442-01 [Stockpile] | B097757 | 5.43 | 10.0 | 06/13/14 |

**Prep Method: SW-846 3546-SW-846 8270D**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 14F0442-01 [Stockpile] | B097988 | 6.08 | 1.00 | 06/17/14 |

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## QUALITY CONTROL

### Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B097757 - SW-846 5035** | | | | | | | | | | |
| **Blank (B097757-BLK1)** | | | | Prepared & Analyzed: 06/13/14 | | | | | | |
| Acetone | ND | 0.10 | mg/Kg | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0010 | mg/Kg | | | | | | | |
| Benzene | ND | 0.0020 | mg/Kg | | | | | | | |
| Bromobenzene | ND | 0.0020 | mg/Kg | | | | | | | |
| Bromochloromethane | ND | 0.0040 | mg/Kg | | | | | | | |
| Bromodichloromethane | ND | 0.0020 | mg/Kg | | | | | | | |
| Bromoform | ND | 0.0020 | mg/Kg | | | | | | | |
| Bromomethane | ND | 0.010 | mg/Kg | | | | | | | |
| 2-Butanone (MEK) | ND | 0.040 | mg/Kg | | | | | | | V-05 |
| n-Butylbenzene | ND | 0.0020 | mg/Kg | | | | | | | |
| sec-Butylbenzene | ND | 0.0020 | mg/Kg | | | | | | | |
| tert-Butylbenzene | ND | 0.0020 | mg/Kg | | | | | | | |
| tert-Butyl Ethyl Ether (TBEE) | ND | 0.0010 | mg/Kg | | | | | | | |
| Carbon Disulfide | ND | 0.020 | mg/Kg | | | | | | | |
| Carbon Tetrachloride | ND | 0.0020 | mg/Kg | | | | | | | |
| Chlorobenzene | ND | 0.0020 | mg/Kg | | | | | | | |
| Chlorodibromomethane | ND | 0.0010 | mg/Kg | | | | | | | |
| Chloroethane | ND | 0.010 | mg/Kg | | | | | | | |
| Chloroform | ND | 0.0040 | mg/Kg | | | | | | | |
| Chloromethane | ND | 0.010 | mg/Kg | | | | | | | |
| 2-Chlorotoluene | ND | 0.0020 | mg/Kg | | | | | | | |
| 4-Chlorotoluene | ND | 0.0020 | mg/Kg | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0020 | mg/Kg | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0010 | mg/Kg | | | | | | | |
| Dibromomethane | ND | 0.0020 | mg/Kg | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0020 | mg/Kg | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0020 | mg/Kg | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.0020 | mg/Kg | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 0.010 | mg/Kg | | | | | | | |
| 1,1-Dichloroethane | ND | 0.010 | mg/Kg | | | | | | | |
| 1,2-Dichloroethane | ND | 0.0020 | mg/Kg | | | | | | | |
| 1,1-Dichloroethylene | ND | 0.0040 | mg/Kg | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg | | | | | | | |
| 1,2-Dichloropropane | ND | 0.0020 | mg/Kg | | | | | | | |
| 1,3-Dichloropropane | ND | 0.0010 | mg/Kg | | | | | | | |
| 2,2-Dichloropropane | ND | 0.0020 | mg/Kg | | | | | | | |
| 1,1-Dichloropropene | ND | 0.0020 | mg/Kg | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.0010 | mg/Kg | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.0020 | mg/Kg | | | | | | | |
| Diethyl Ether | ND | 0.010 | mg/Kg | | | | | | | |
| Diisopropyl Ether (DIPE) | ND | 0.0010 | mg/Kg | | | | | | | |
| 1,4-Dioxane | ND | 0.10 | mg/Kg | | | | | | | V-16 |
| Ethylbenzene | ND | 0.0020 | mg/Kg | | | | | | | |
| Hexachlorobutadiene | ND | 0.0020 | mg/Kg | | | | | | | |
| 2-Hexanone (MBK) | ND | 0.020 | mg/Kg | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 0.0020 | mg/Kg | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0020 | mg/Kg | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0040 | mg/Kg | | | | | | | |
| Methylene Chloride | ND | 0.010 | mg/Kg | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.020 | mg/Kg | | | | | | | |
| Naphthalene | ND | 0.010 | mg/Kg | | | | | | | V-05 |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B097757 - SW-846 5035** | | | | | | | | | | | | |
| **Blank (B097757-BLK1)** | | | | Prepared & Analyzed: 06/13/14 | | | | | | | | |
| n-Propylbenzene | ND | 0.0020 | mg/Kg | | | | | | | | | |
| Styrene | ND | 0.0020 | mg/Kg | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0020 | mg/Kg | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0010 | mg/Kg | | | | | | | | | |
| Tetrachloroethylene | ND | 0.0020 | mg/Kg | | | | | | | | | |
| Tetrahydrofuran | ND | 0.010 | mg/Kg | | | | | | | | V-05 | |
| Toluene | ND | 0.0020 | mg/Kg | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.0040 | mg/Kg | | | | | | | | V-05 | |
| 1,2,4-Trichlorobenzene | ND | 0.0020 | mg/Kg | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.0020 | mg/Kg | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0020 | mg/Kg | | | | | | | | | |
| Trichloroethylene | ND | 0.0020 | mg/Kg | | | | | | | | | |
| Trichlorofluoromethane (Freon 11) | ND | 0.010 | mg/Kg | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.0020 | mg/Kg | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0020 | mg/Kg | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0020 | mg/Kg | | | | | | | | | |
| Vinyl Chloride | ND | 0.010 | mg/Kg | | | | | | | | | |
| m+p Xylene | ND | 0.0040 | mg/Kg | | | | | | | | | |
| o-Xylene | ND | 0.0020 | mg/Kg | | | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0502* | | mg/Kg | 0.0500 | | 100 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *0.0482* | | mg/Kg | 0.0500 | | 96.4 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0453* | | mg/Kg | 0.0500 | | 90.6 | | 70-130 | | | | |
| **LCS (B097757-BS1)** | | | | Prepared & Analyzed: 06/13/14 | | | | | | | | |
| Acetone | 0.157 | 0.10 | mg/Kg | 0.200 | | 78.7 | | 40-160 | | | | † |
| tert-Amyl Methyl Ether (TAME) | 0.0191 | 0.0010 | mg/Kg | 0.0200 | | 95.5 | | 70-130 | | | | |
| Benzene | 0.0207 | 0.0020 | mg/Kg | 0.0200 | | 103 | | 70-130 | | | | |
| Bromobenzene | 0.0206 | 0.0020 | mg/Kg | 0.0200 | | 103 | | 70-130 | | | | |
| **Bromochloromethane** | 0.0280 | 0.0040 | mg/Kg | 0.0200 | | **140** | * | 70-130 | | | L-02 | |
| Bromodichloromethane | 0.0201 | 0.0020 | mg/Kg | 0.0200 | | 101 | | 70-130 | | | | |
| Bromoform | 0.0193 | 0.0020 | mg/Kg | 0.0200 | | 96.5 | | 70-130 | | | | |
| Bromomethane | 0.00898 | 0.010 | mg/Kg | 0.0200 | | 44.9 | | 40-160 | | | L-14 | † |
| 2-Butanone (MEK) | 0.149 | 0.040 | mg/Kg | 0.200 | | 74.5 | | 40-160 | | | V-05 | † |
| n-Butylbenzene | 0.0209 | 0.0020 | mg/Kg | 0.0200 | | 104 | | 70-130 | | | | |
| sec-Butylbenzene | 0.0243 | 0.0020 | mg/Kg | 0.0200 | | 122 | | 70-130 | | | | |
| tert-Butylbenzene | 0.0241 | 0.0020 | mg/Kg | 0.0200 | | 121 | | 70-130 | | | | |
| tert-Butyl Ethyl Ether (TBEE) | 0.0217 | 0.0010 | mg/Kg | 0.0200 | | 108 | | 70-130 | | | | |
| Carbon Disulfide | 0.0204 | 0.020 | mg/Kg | 0.0200 | | 102 | | 70-130 | | | | |
| Carbon Tetrachloride | 0.0232 | 0.0020 | mg/Kg | 0.0200 | | 116 | | 70-130 | | | | |
| Chlorobenzene | 0.0208 | 0.0020 | mg/Kg | 0.0200 | | 104 | | 70-130 | | | | |
| Chlorodibromomethane | 0.0201 | 0.0010 | mg/Kg | 0.0200 | | 101 | | 70-130 | | | | |
| Chloroethane | 0.0225 | 0.010 | mg/Kg | 0.0200 | | 113 | | 70-130 | | | | |
| Chloroform | 0.0189 | 0.0040 | mg/Kg | 0.0200 | | 94.5 | | 70-130 | | | | |
| Chloromethane | 0.0120 | 0.010 | mg/Kg | 0.0200 | | 59.9 | | 40-160 | | | L-14 | † |
| 2-Chlorotoluene | 0.0217 | 0.0020 | mg/Kg | 0.0200 | | 108 | | 70-130 | | | | |
| 4-Chlorotoluene | 0.0226 | 0.0020 | mg/Kg | 0.0200 | | 113 | | 70-130 | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0189 | 0.0020 | mg/Kg | 0.0200 | | 94.6 | | 70-130 | | | | |
| 1,2-Dibromoethane (EDB) | 0.0194 | 0.0010 | mg/Kg | 0.0200 | | 97.0 | | 70-130 | | | | |
| Dibromomethane | 0.0197 | 0.0020 | mg/Kg | 0.0200 | | 98.4 | | 70-130 | | | | |
| 1,2-Dichlorobenzene | 0.0210 | 0.0020 | mg/Kg | 0.0200 | | 105 | | 70-130 | | | | |
| 1,3-Dichlorobenzene | 0.0212 | 0.0020 | mg/Kg | 0.0200 | | 106 | | 70-130 | | | | |
| 1,4-Dichlorobenzene | 0.0211 | 0.0020 | mg/Kg | 0.0200 | | 105 | | 70-130 | | | | |

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## QUALITY CONTROL

### Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B097757 - SW-846 5035** | | | | | | | | | | | |
| **LCS (B097757-BS1)** | | | | Prepared & Analyzed: 06/13/14 | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | 0.0209 | 0.010 | mg/Kg | 0.0200 | | 104 | 40-160 | | | | † |
| 1,1-Dichloroethane | 0.0181 | 0.010 | mg/Kg | 0.0200 | | 90.7 | 70-130 | | | | |
| 1,2-Dichloroethane | 0.0204 | 0.0020 | mg/Kg | 0.0200 | | 102 | 70-130 | | | | |
| 1,1-Dichloroethylene | 0.0231 | 0.0040 | mg/Kg | 0.0200 | | 116 | 70-130 | | | | |
| cis-1,2-Dichloroethylene | 0.0200 | 0.0020 | mg/Kg | 0.0200 | | 99.8 | 70-130 | | | | |
| trans-1,2-Dichloroethylene | 0.0214 | 0.0020 | mg/Kg | 0.0200 | | 107 | 70-130 | | | | |
| 1,2-Dichloropropane | 0.0205 | 0.0020 | mg/Kg | 0.0200 | | 103 | 70-130 | | | | |
| 1,3-Dichloropropane | 0.0194 | 0.0010 | mg/Kg | 0.0200 | | 96.8 | 70-130 | | | | |
| 2,2-Dichloropropane | 0.0176 | 0.0020 | mg/Kg | 0.0200 | | 87.8 | 70-130 | | | | |
| 1,1-Dichloropropene | 0.0227 | 0.0020 | mg/Kg | 0.0200 | | 114 | 70-130 | | | | |
| cis-1,3-Dichloropropene | 0.0202 | 0.0010 | mg/Kg | 0.0200 | | 101 | 70-130 | | | | |
| trans-1,3-Dichloropropene | 0.0191 | 0.0020 | mg/Kg | 0.0200 | | 95.6 | 70-130 | | | | |
| Diethyl Ether | 0.0205 | 0.010 | mg/Kg | 0.0200 | | 102 | 70-130 | | | | |
| Diisopropyl Ether (DIPE) | 0.0215 | 0.0010 | mg/Kg | 0.0200 | | 107 | 70-130 | | | | |
| 1,4-Dioxane | 0.162 | 0.10 | mg/Kg | 0.200 | | 80.9 | 40-160 | | | V-16 | † |
| Ethylbenzene | 0.0233 | 0.0020 | mg/Kg | 0.0200 | | 117 | 70-130 | | | | |
| Hexachlorobutadiene | 0.0241 | 0.0020 | mg/Kg | 0.0200 | | 121 | 70-130 | | | | |
| 2-Hexanone (MBK) | 0.172 | 0.020 | mg/Kg | 0.200 | | 85.8 | 40-160 | | | | † |
| Isopropylbenzene (Cumene) | 0.0232 | 0.0020 | mg/Kg | 0.0200 | | 116 | 70-130 | | | | |
| p-Isopropyltoluene (p-Cymene) | 0.0242 | 0.0020 | mg/Kg | 0.0200 | | 121 | 70-130 | | | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0186 | 0.0040 | mg/Kg | 0.0200 | | 92.8 | 70-130 | | | | |
| Methylene Chloride | 0.0160 | 0.010 | mg/Kg | 0.0200 | | 79.9 | 70-130 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 0.176 | 0.020 | mg/Kg | 0.200 | | 88.1 | 40-160 | | | | † |
| Naphthalene | 0.0153 | 0.010 | mg/Kg | 0.0200 | | 76.5 | 70-130 | | | V-05 | |
| n-Propylbenzene | 0.0225 | 0.0020 | mg/Kg | 0.0200 | | 112 | 70-130 | | | | |
| Styrene | 0.0225 | 0.0020 | mg/Kg | 0.0200 | | 112 | 70-130 | | | | |
| 1,1,1,2-Tetrachloroethane | 0.0219 | 0.0020 | mg/Kg | 0.0200 | | 110 | 70-130 | | | | |
| 1,1,2,2-Tetrachloroethane | 0.0187 | 0.0010 | mg/Kg | 0.0200 | | 93.7 | 70-130 | | | | |
| Tetrachloroethylene | 0.0228 | 0.0020 | mg/Kg | 0.0200 | | 114 | 70-130 | | | | |
| Tetrahydrofuran | 0.0176 | 0.010 | mg/Kg | 0.0200 | | 88.1 | 70-130 | | | V-05 | |
| Toluene | 0.0215 | 0.0020 | mg/Kg | 0.0200 | | 107 | 70-130 | | | | |
| 1,2,3-Trichlorobenzene | 0.0177 | 0.0040 | mg/Kg | 0.0200 | | 88.4 | 70-130 | | | V-05 | |
| 1,2,4-Trichlorobenzene | 0.0175 | 0.0020 | mg/Kg | 0.0200 | | 87.6 | 70-130 | | | | |
| 1,1,1-Trichloroethane | 0.0217 | 0.0020 | mg/Kg | 0.0200 | | 108 | 70-130 | | | | |
| 1,1,2-Trichloroethane | 0.0190 | 0.0020 | mg/Kg | 0.0200 | | 95.2 | 70-130 | | | | |
| Trichloroethylene | 0.0220 | 0.0020 | mg/Kg | 0.0200 | | 110 | 70-130 | | | | |
| Trichlorofluoromethane (Freon 11) | 0.0216 | 0.010 | mg/Kg | 0.0200 | | 108 | 70-130 | | | | |
| 1,2,3-Trichloropropane | 0.0185 | 0.0020 | mg/Kg | 0.0200 | | 92.3 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 0.0243 | 0.0020 | mg/Kg | 0.0200 | | 121 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 0.0226 | 0.0020 | mg/Kg | 0.0200 | | 113 | 70-130 | | | | |
| Vinyl Chloride | 0.0207 | 0.010 | mg/Kg | 0.0200 | | 104 | 70-130 | | | | |
| m+p Xylene | 0.0466 | 0.0040 | mg/Kg | 0.0400 | | 116 | 70-130 | | | | |
| o-Xylene | 0.0224 | 0.0020 | mg/Kg | 0.0200 | | 112 | 70-130 | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0475* | | mg/Kg | 0.0500 | | 95.1 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *0.0491* | | mg/Kg | 0.0500 | | 98.1 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0483* | | mg/Kg | 0.0500 | | 96.6 | 70-130 | | | | |

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## QUALITY CONTROL

### Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B097757 - SW-846 5035** | | | | | | | | | | | | |
| **LCS Dup (B097757-BSD1)** | | | | Prepared & Analyzed: 06/13/14 | | | | | | | | |
| Acetone | 0.159 | 0.10 | mg/Kg | 0.200 | | 79.5 | | 40-160 | 1.07 | 20 | | † |
| tert-Amyl Methyl Ether (TAME) | 0.0195 | 0.0010 | mg/Kg | 0.0200 | | 97.6 | | 70-130 | 2.18 | 20 | | |
| Benzene | 0.0209 | 0.0020 | mg/Kg | 0.0200 | | 104 | | 70-130 | 0.867 | 20 | | |
| Bromobenzene | 0.0209 | 0.0020 | mg/Kg | 0.0200 | | 104 | | 70-130 | 1.45 | 20 | | |
| **Bromochloromethane** | 0.0314 | 0.0040 | mg/Kg | 0.0200 | | **157** | * | 70-130 | 11.5 | 20 | L-02 | |
| Bromodichloromethane | 0.0212 | 0.0020 | mg/Kg | 0.0200 | | 106 | | 70-130 | 5.42 | 20 | | |
| Bromoform | 0.0200 | 0.0020 | mg/Kg | 0.0200 | | 99.8 | | 70-130 | 3.36 | 20 | | |
| Bromomethane | 0.0102 | 0.010 | mg/Kg | 0.0200 | | 51.1 | | 40-160 | 12.9 | 20 | L-14 | † |
| 2-Butanone (MEK) | 0.152 | 0.040 | mg/Kg | 0.200 | | 75.9 | | 40-160 | 1.81 | 20 | V-05 | † |
| n-Butylbenzene | 0.0202 | 0.0020 | mg/Kg | 0.0200 | | 101 | | 70-130 | 3.02 | 20 | | |
| sec-Butylbenzene | 0.0233 | 0.0020 | mg/Kg | 0.0200 | | 116 | | 70-130 | 4.37 | 20 | | |
| tert-Butylbenzene | 0.0231 | 0.0020 | mg/Kg | 0.0200 | | 116 | | 70-130 | 4.15 | 20 | | |
| tert-Butyl Ethyl Ether (TBEE) | 0.0224 | 0.0010 | mg/Kg | 0.0200 | | 112 | | 70-130 | 3.00 | 20 | | |
| Carbon Disulfide | 0.0204 | 0.020 | mg/Kg | 0.0200 | | 102 | | 70-130 | 0.196 | 20 | | |
| Carbon Tetrachloride | 0.0233 | 0.0020 | mg/Kg | 0.0200 | | 116 | | 70-130 | 0.430 | 20 | | |
| Chlorobenzene | 0.0207 | 0.0020 | mg/Kg | 0.0200 | | 103 | | 70-130 | 0.771 | 20 | | |
| Chlorodibromomethane | 0.0205 | 0.0010 | mg/Kg | 0.0200 | | 102 | | 70-130 | 1.77 | 20 | | |
| Chloroethane | 0.0233 | 0.010 | mg/Kg | 0.0200 | | 116 | | 70-130 | 3.23 | 20 | | |
| Chloroform | 0.0188 | 0.0040 | mg/Kg | 0.0200 | | 94.1 | | 70-130 | 0.424 | 20 | | |
| Chloromethane | 0.0123 | 0.010 | mg/Kg | 0.0200 | | 61.5 | | 40-160 | 2.64 | 20 | L-14 | † |
| 2-Chlorotoluene | 0.0217 | 0.0020 | mg/Kg | 0.0200 | | 108 | | 70-130 | 0.185 | 20 | | |
| 4-Chlorotoluene | 0.0227 | 0.0020 | mg/Kg | 0.0200 | | 114 | | 70-130 | 0.530 | 20 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0185 | 0.0020 | mg/Kg | 0.0200 | | 92.6 | | 70-130 | 2.14 | 20 | | |
| 1,2-Dibromoethane (EDB) | 0.0198 | 0.0010 | mg/Kg | 0.0200 | | 98.8 | | 70-130 | 1.84 | 20 | | |
| Dibromomethane | 0.0208 | 0.0020 | mg/Kg | 0.0200 | | 104 | | 70-130 | 5.34 | 20 | | |
| 1,2-Dichlorobenzene | 0.0206 | 0.0020 | mg/Kg | 0.0200 | | 103 | | 70-130 | 2.21 | 20 | | |
| 1,3-Dichlorobenzene | 0.0209 | 0.0020 | mg/Kg | 0.0200 | | 104 | | 70-130 | 1.52 | 20 | | |
| 1,4-Dichlorobenzene | 0.0203 | 0.0020 | mg/Kg | 0.0200 | | 102 | | 70-130 | 3.68 | 20 | | |
| Dichlorodifluoromethane (Freon 12) | 0.0211 | 0.010 | mg/Kg | 0.0200 | | 105 | | 40-160 | 0.953 | 20 | | † |
| 1,1-Dichloroethane | 0.0186 | 0.010 | mg/Kg | 0.0200 | | 92.8 | | 70-130 | 2.29 | 20 | | |
| 1,2-Dichloroethane | 0.0209 | 0.0020 | mg/Kg | 0.0200 | | 104 | | 70-130 | 2.52 | 20 | | |
| 1,1-Dichloroethylene | 0.0230 | 0.0040 | mg/Kg | 0.0200 | | 115 | | 70-130 | 0.347 | 20 | | |
| cis-1,2-Dichloroethylene | 0.0196 | 0.0020 | mg/Kg | 0.0200 | | 98.2 | | 70-130 | 1.62 | 20 | | |
| trans-1,2-Dichloroethylene | 0.0216 | 0.0020 | mg/Kg | 0.0200 | | 108 | | 70-130 | 0.838 | 20 | | |
| 1,2-Dichloropropane | 0.0213 | 0.0020 | mg/Kg | 0.0200 | | 106 | | 70-130 | 3.44 | 20 | | |
| 1,3-Dichloropropane | 0.0200 | 0.0010 | mg/Kg | 0.0200 | | 99.8 | | 70-130 | 3.05 | 20 | | |
| 2,2-Dichloropropane | 0.0167 | 0.0020 | mg/Kg | 0.0200 | | 83.3 | | 70-130 | 5.26 | 20 | | |
| 1,1-Dichloropropene | 0.0224 | 0.0020 | mg/Kg | 0.0200 | | 112 | | 70-130 | 1.33 | 20 | | |
| cis-1,3-Dichloropropene | 0.0207 | 0.0010 | mg/Kg | 0.0200 | | 103 | | 70-130 | 2.35 | 20 | | |
| trans-1,3-Dichloropropene | 0.0200 | 0.0020 | mg/Kg | 0.0200 | | 100 | | 70-130 | 4.70 | 20 | | |
| Diethyl Ether | 0.0211 | 0.010 | mg/Kg | 0.0200 | | 106 | | 70-130 | 3.08 | 20 | | |
| Diisopropyl Ether (DIPE) | 0.0218 | 0.0010 | mg/Kg | 0.0200 | | 109 | | 70-130 | 1.48 | 20 | | |
| 1,4-Dioxane | 0.184 | 0.10 | mg/Kg | 0.200 | | 91.9 | | 40-160 | 12.8 | 20 | V-16 | † |
| Ethylbenzene | 0.0233 | 0.0020 | mg/Kg | 0.0200 | | 116 | | 70-130 | 0.343 | 20 | | |
| Hexachlorobutadiene | 0.0231 | 0.0020 | mg/Kg | 0.0200 | | 116 | | 70-130 | 4.23 | 20 | | |
| 2-Hexanone (MBK) | 0.180 | 0.020 | mg/Kg | 0.200 | | 90.2 | | 40-160 | 4.92 | 20 | | † |
| Isopropylbenzene (Cumene) | 0.0229 | 0.0020 | mg/Kg | 0.0200 | | 115 | | 70-130 | 1.13 | 20 | | |
| p-Isopropyltoluene (p-Cymene) | 0.0237 | 0.0020 | mg/Kg | 0.0200 | | 118 | | 70-130 | 2.17 | 20 | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0188 | 0.0040 | mg/Kg | 0.0200 | | 93.9 | | 70-130 | 1.18 | 20 | | |
| Methylene Chloride | 0.0164 | 0.010 | mg/Kg | 0.0200 | | 82.2 | | 70-130 | 2.84 | 20 | | |
| 4-Methyl-2-pentanone (MIBK) | 0.184 | 0.020 | mg/Kg | 0.200 | | 92.0 | | 40-160 | 4.28 | 20 | | † |
| Naphthalene | 0.0156 | 0.010 | mg/Kg | 0.0200 | | 78.2 | | 70-130 | 2.20 | 20 | V-05 | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B097757 - SW-846 5035** | | | | | | | | | | |
| **LCS Dup (B097757-BSD1)** | | | | Prepared & Analyzed: 06/13/14 | | | | | | |
| n-Propylbenzene | 0.0223 | 0.0020 | mg/Kg | 0.0200 | | 112 | 70-130 | 0.804 | 20 | |
| Styrene | 0.0228 | 0.0020 | mg/Kg | 0.0200 | | 114 | 70-130 | 1.33 | 20 | |
| 1,1,1,2-Tetrachloroethane | 0.0221 | 0.0020 | mg/Kg | 0.0200 | | 110 | 70-130 | 0.818 | 20 | |
| 1,1,2,2-Tetrachloroethane | 0.0192 | 0.0010 | mg/Kg | 0.0200 | | 96.0 | 70-130 | 2.42 | 20 | |
| Tetrachloroethylene | 0.0229 | 0.0020 | mg/Kg | 0.0200 | | 114 | 70-130 | 0.526 | 20 | |
| Tetrahydrofuran | 0.0193 | 0.010 | mg/Kg | 0.0200 | | 96.6 | 70-130 | 9.20 | 20 | V-05 |
| Toluene | 0.0214 | 0.0020 | mg/Kg | 0.0200 | | 107 | 70-130 | 0.373 | 20 | |
| 1,2,3-Trichlorobenzene | 0.0175 | 0.0040 | mg/Kg | 0.0200 | | 87.4 | 70-130 | 1.14 | 20 | V-05 |
| 1,2,4-Trichlorobenzene | 0.0171 | 0.0020 | mg/Kg | 0.0200 | | 85.5 | 70-130 | 2.43 | 20 | |
| 1,1,1-Trichloroethane | 0.0213 | 0.0020 | mg/Kg | 0.0200 | | 106 | 70-130 | 1.77 | 20 | |
| 1,1,2-Trichloroethane | 0.0191 | 0.0020 | mg/Kg | 0.0200 | | 95.6 | 70-130 | 0.419 | 20 | |
| Trichloroethylene | 0.0220 | 0.0020 | mg/Kg | 0.0200 | | 110 | 70-130 | 0.273 | 20 | |
| Trichlorofluoromethane (Freon 11) | 0.0228 | 0.010 | mg/Kg | 0.0200 | | 114 | 70-130 | 5.49 | 20 | |
| 1,2,3-Trichloropropane | 0.0195 | 0.0020 | mg/Kg | 0.0200 | | 97.7 | 70-130 | 5.68 | 20 | |
| 1,2,4-Trimethylbenzene | 0.0234 | 0.0020 | mg/Kg | 0.0200 | | 117 | 70-130 | 3.61 | 20 | |
| 1,3,5-Trimethylbenzene | 0.0224 | 0.0020 | mg/Kg | 0.0200 | | 112 | 70-130 | 0.800 | 20 | |
| Vinyl Chloride | 0.0202 | 0.010 | mg/Kg | 0.0200 | | 101 | 70-130 | 2.25 | 20 | |
| m+p Xylene | 0.0463 | 0.0040 | mg/Kg | 0.0400 | | 116 | 70-130 | 0.603 | 20 | |
| o-Xylene | 0.0225 | 0.0020 | mg/Kg | 0.0200 | | 112 | 70-130 | 0.268 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0488* | | mg/Kg | 0.0500 | | 97.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | *0.0493* | | mg/Kg | 0.0500 | | 98.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0490* | | mg/Kg | 0.0500 | | 98.1 | 70-130 | | | |

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## QUALITY CONTROL

### Semivolatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B097988 - SW-846 3546** | | | | | | | | | | |
| **Blank (B097988-BLK1)** | | | | Prepared & Analyzed: 06/17/14 | | | | | | |
| Acenaphthene | ND | 0.85 | mg/Kg | | | | | | | |
| Acenaphthylene | ND | 0.85 | mg/Kg | | | | | | | |
| Anthracene | ND | 0.85 | mg/Kg | | | | | | | |
| Benzo(a)anthracene | ND | 0.85 | mg/Kg | | | | | | | |
| Benzo(a)pyrene | ND | 0.85 | mg/Kg | | | | | | | |
| Benzo(b)fluoranthene | ND | 0.85 | mg/Kg | | | | | | | |
| Benzo(g,h,i)perylene | ND | 0.85 | mg/Kg | | | | | | | |
| Benzo(k)fluoranthene | ND | 0.85 | mg/Kg | | | | | | | |
| Chrysene | ND | 0.85 | mg/Kg | | | | | | | |
| Dibenz(a,h)anthracene | ND | 0.85 | mg/Kg | | | | | | | V-20 |
| Fluoranthene | ND | 0.85 | mg/Kg | | | | | | | |
| Fluorene | ND | 0.85 | mg/Kg | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.85 | mg/Kg | | | | | | | V-20 |
| 2-Methylnaphthalene | ND | 0.85 | mg/Kg | | | | | | | |
| Naphthalene | ND | 0.85 | mg/Kg | | | | | | | |
| Phenanthrene | ND | 0.85 | mg/Kg | | | | | | | |
| Pyrene | ND | 0.85 | mg/Kg | | | | | | | |
| Surrogate: Nitrobenzene-d5 | *10.2* | | mg/Kg | 16.7 | | 61.2 | 30-130 | | | |
| Surrogate: 2-Fluorobiphenyl | *11.1* | | mg/Kg | 16.7 | | 66.7 | 30-130 | | | |
| Surrogate: p-Terphenyl-d14 | *13.1* | | mg/Kg | 16.7 | | 78.9 | 30-130 | | | |
| **LCS (B097988-BS1)** | | | | Prepared: 06/17/14 Analyzed: 06/18/14 | | | | | | |
| Acenaphthene | 6.93 | 0.85 | mg/Kg | 8.33 | | 83.2 | 40-140 | | | |
| Acenaphthylene | 6.88 | 0.85 | mg/Kg | 8.33 | | 82.6 | 40-140 | | | |
| Anthracene | 7.68 | 0.85 | mg/Kg | 8.33 | | 92.2 | 40-140 | | | |
| Benzo(a)anthracene | 7.83 | 0.85 | mg/Kg | 8.33 | | 94.0 | 40-140 | | | |
| Benzo(a)pyrene | 9.66 | 0.85 | mg/Kg | 8.33 | | 116 | 40-140 | | | |
| Benzo(b)fluoranthene | 8.64 | 0.85 | mg/Kg | 8.33 | | 104 | 40-140 | | | |
| Benzo(g,h,i)perylene | 7.31 | 0.85 | mg/Kg | 8.33 | | 87.7 | 40-140 | | | |
| Benzo(k)fluoranthene | 10.3 | 0.85 | mg/Kg | 8.33 | | 124 | 40-140 | | | |
| Chrysene | 7.64 | 0.85 | mg/Kg | 8.33 | | 91.7 | 40-140 | | | |
| Dibenz(a,h)anthracene | 7.40 | 0.85 | mg/Kg | 8.33 | | 88.8 | 40-140 | | | |
| Fluoranthene | 7.46 | 0.85 | mg/Kg | 8.33 | | 89.6 | 40-140 | | | |
| Fluorene | 7.56 | 0.85 | mg/Kg | 8.33 | | 90.7 | 40-140 | | | |
| Indeno(1,2,3-cd)pyrene | 6.56 | 0.85 | mg/Kg | 8.33 | | 78.8 | 40-140 | | | |
| 2-Methylnaphthalene | 9.51 | 0.85 | mg/Kg | 8.33 | | 114 | 40-140 | | | |
| Naphthalene | 6.39 | 0.85 | mg/Kg | 8.33 | | 76.7 | 40-140 | | | |
| Phenanthrene | 6.86 | 0.85 | mg/Kg | 8.33 | | 82.3 | 40-140 | | | |
| Pyrene | 9.12 | 0.85 | mg/Kg | 8.33 | | 109 | 40-140 | | | |
| Surrogate: Nitrobenzene-d5 | *14.9* | | mg/Kg | 16.7 | | 89.7 | 30-130 | | | |
| Surrogate: 2-Fluorobiphenyl | *15.4* | | mg/Kg | 16.7 | | 92.3 | 30-130 | | | |
| Surrogate: p-Terphenyl-d14 | *18.5* | | mg/Kg | 16.7 | | 111 | 30-130 | | | |

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**QUALITY CONTROL**

**Semivolatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B097988 - SW-846 3546** | | | | | | | | | | |
| **LCS Dup (B097988-BSD1)** | | | | Prepared: 06/17/14 Analyzed: 06/18/14 | | | | | | |
| Acenaphthene | 6.57 | 0.85 | mg/Kg | 8.33 | | 78.9 | 40-140 | 5.33 | 30 | |
| Acenaphthylene | 6.56 | 0.85 | mg/Kg | 8.33 | | 78.7 | 40-140 | 4.89 | 30 | |
| Anthracene | 7.21 | 0.85 | mg/Kg | 8.33 | | 86.5 | 40-140 | 6.35 | 30 | |
| Benzo(a)anthracene | 7.42 | 0.85 | mg/Kg | 8.33 | | 89.0 | 40-140 | 5.42 | 30 | |
| Benzo(a)pyrene | 9.19 | 0.85 | mg/Kg | 8.33 | | 110 | 40-140 | 5.07 | 30 | |
| Benzo(b)fluoranthene | 8.38 | 0.85 | mg/Kg | 8.33 | | 101 | 40-140 | 3.11 | 30 | |
| Benzo(g,h,i)perylene | 6.66 | 0.85 | mg/Kg | 8.33 | | 79.9 | 40-140 | 9.33 | 30 | |
| Benzo(k)fluoranthene | 9.99 | 0.85 | mg/Kg | 8.33 | | 120 | 40-140 | 3.31 | 30 | |
| Chrysene | 7.35 | 0.85 | mg/Kg | 8.33 | | 88.2 | 40-140 | 3.91 | 30 | |
| Dibenz(a,h)anthracene | 7.23 | 0.85 | mg/Kg | 8.33 | | 86.8 | 40-140 | 2.35 | 30 | |
| Fluoranthene | 6.91 | 0.85 | mg/Kg | 8.33 | | 82.9 | 40-140 | 7.70 | 30 | |
| Fluorene | 7.02 | 0.85 | mg/Kg | 8.33 | | 84.3 | 40-140 | 7.27 | 30 | |
| Indeno(1,2,3-cd)pyrene | 6.33 | 0.85 | mg/Kg | 8.33 | | 76.0 | 40-140 | 3.57 | 30 | |
| 2-Methylnaphthalene | 9.10 | 0.85 | mg/Kg | 8.33 | | 109 | 40-140 | 4.39 | 30 | |
| Naphthalene | 6.29 | 0.85 | mg/Kg | 8.33 | | 75.5 | 40-140 | 1.60 | 30 | |
| Phenanthrene | 6.33 | 0.85 | mg/Kg | 8.33 | | 75.9 | 40-140 | 8.02 | 30 | |
| Pyrene | 8.75 | 0.85 | mg/Kg | 8.33 | | 105 | 40-140 | 4.08 | 30 | |
| Surrogate: Nitrobenzene-d5 | *14.2* | | mg/Kg | 16.7 | | 85.5 | 30-130 | | | |
| Surrogate: 2-Fluorobiphenyl | *14.2* | | mg/Kg | 16.7 | | 85.0 | 30-130 | | | |
| Surrogate: p-Terphenyl-d14 | *17.5* | | mg/Kg | 16.7 | | 105 | 30-130 | | | |

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## QUALITY CONTROL

### TCLP - Metals Analyses - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B097859 - SW-846 3010A** | | | | | | | | | | |
| **Blank (B097859-BLK1)** | | | | Prepared: 06/14/14 Analyzed: 06/16/14 | | | | | | |
| Arsenic | ND | 0.010 | mg/L | | | | | | | |
| Cadmium | ND | 0.0040 | mg/L | | | | | | | |
| Chromium | ND | 0.010 | mg/L | | | | | | | |
| Lead | ND | 0.010 | mg/L | | | | | | | |
| Selenium | ND | 0.050 | mg/L | | | | | | | |
| Silver | ND | 0.0050 | mg/L | | | | | | | |
| **LCS (B097859-BS1)** | | | | Prepared: 06/14/14 Analyzed: 06/16/14 | | | | | | |
| Arsenic | 0.563 | 0.010 | mg/L | 0.500 | | 113 | 80-120 | | | |
| Cadmium | 0.513 | 0.0040 | mg/L | 0.500 | | 103 | 80-120 | | | |
| Chromium | 0.495 | 0.010 | mg/L | 0.500 | | 98.9 | 80-120 | | | |
| Lead | 0.474 | 0.010 | mg/L | 0.500 | | 94.8 | 80-120 | | | |
| Selenium | 0.574 | 0.050 | mg/L | 0.500 | | 115 | 80-120 | | | |
| Silver | 0.492 | 0.0050 | mg/L | 0.500 | | 98.4 | 80-120 | | | |
| **LCS Dup (B097859-BSD1)** | | | | Prepared: 06/14/14 Analyzed: 06/16/14 | | | | | | |
| Arsenic | 0.551 | 0.010 | mg/L | 0.500 | | 110 | 80-120 | 2.13 | 20 | |
| Cadmium | 0.505 | 0.0040 | mg/L | 0.500 | | 101 | 80-120 | 1.55 | 20 | |
| Chromium | 0.487 | 0.010 | mg/L | 0.500 | | 97.4 | 80-120 | 1.55 | 20 | |
| Lead | 0.465 | 0.010 | mg/L | 0.500 | | 93.1 | 80-120 | 1.86 | 20 | |
| Selenium | 0.562 | 0.050 | mg/L | 0.500 | | 112 | 80-120 | 1.98 | 20 | |
| Silver | 0.485 | 0.0050 | mg/L | 0.500 | | 96.9 | 80-120 | 1.54 | 20 | |
| **Batch B097867 - SW-846 7470A Prep** | | | | | | | | | | |
| **Blank (B097867-BLK1)** | | | | Prepared: 06/14/14 Analyzed: 06/16/14 | | | | | | |
| Mercury | ND | 0.00010 | mg/L | | | | | | | |
| **LCS (B097867-BS1)** | | | | Prepared: 06/14/14 Analyzed: 06/16/14 | | | | | | |
| Mercury | 0.00206 | 0.00010 | mg/L | 0.00200 | | 103 | 80-120 | | | |
| **LCS Dup (B097867-BSD1)** | | | | Prepared: 06/14/14 Analyzed: 06/16/14 | | | | | | |
| Mercury | 0.00213 | 0.00010 | mg/L | 0.00200 | | 106 | 80-120 | 3.34 | 20 | |
| **Batch B098040 - SW-846 3010A** | | | | | | | | | | |
| **Blank (B098040-BLK1)** | | | | Prepared: 06/17/14 Analyzed: 06/18/14 | | | | | | |
| Barium | ND | 0.050 | mg/L | | | | | | | |
| **LCS (B098040-BS1)** | | | | Prepared: 06/17/14 Analyzed: 06/18/14 | | | | | | |
| Barium | 0.507 | 0.050 | mg/L | 0.500 | | 101 | 80-120 | | | |

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**QUALITY CONTROL**

**TCLP - Metals Analyses - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B098040 - SW-846 3010A** | | | | | | | | | | |
| **LCS Dup (B098040-BSD1)** | | | | Prepared: 06/17/14 Analyzed: 06/18/14 | | | | | | |
| Barium | 0.506 | 0.050 | mg/L | 0.500 | | 101 | 80-120 | 0.0462 | 20 | |

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**FLAG/QUALIFIER SUMMARY**

| | |
|---|---|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| | No results have been blank subtracted unless specified in the case narrative section. |
| L-02 | Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side. |
| L-14 | Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria. |
| V-05 | Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side. |
| V-16 | Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result. |
| V-20 | Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound. |

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## CERTIFICATIONS

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 6010C in Soil*** | |
| Barium | NY,CT,ME,NC,NH,VA,NJ |
| ***SW-846 6010C in Water*** | |
| Arsenic | NY,CT,NC,ME,NH,VA,NJ |
| Barium | NY,CT,ME,NC,NH,VA,NJ |
| Cadmium | NY,CT,ME,NC,NH,VA,NJ |
| Chromium | NY,CT,ME,NC,NH,VA,NJ |
| Lead | NY,CT,ME,NC,NH,VA,NJ |
| Selenium | CT,ME,NC,NH,NY,VA,NJ |
| Silver | CT,ME,NC,NH,NY,VA,NJ |
| ***SW-846 7470A in Water*** | |
| Mercury | CT,ME,NC,NH,NY,VA,NJ |
| ***SW-846 8260C in Product/Solid*** | |
| Acetone | CT,NH,NY,ME |
| Benzene | CT,NH,NY,ME |
| Bromobenzene | NH,NY,ME |
| Bromochloromethane | NH,NY,ME |
| Bromodichloromethane | CT,NH,NY,ME |
| Bromoform | CT,NH,NY,ME |
| Bromomethane | CT,NH,NY,ME |
| 2-Butanone (MEK) | CT,NH,NY,ME |
| n-Butylbenzene | CT,NH,NY,ME |
| sec-Butylbenzene | CT,NH,NY,ME |
| tert-Butylbenzene | CT,NH,NY,ME |
| Carbon Disulfide | CT,NH,NY,ME |
| Carbon Tetrachloride | CT,NH,NY,ME |
| Chlorobenzene | CT,NH,NY,ME |
| Chlorodibromomethane | CT,NH,NY,ME |
| Chloroethane | CT,NH,NY,ME |
| Chloroform | CT,NH,NY,ME |
| Chloromethane | CT,NH,NY,ME |
| 2-Chlorotoluene | CT,NH,NY,ME |
| 4-Chlorotoluene | CT,NH,NY,ME |
| Dibromomethane | NH,NY,ME |
| 1,2-Dichlorobenzene | CT,NH,NY,ME |
| 1,3-Dichlorobenzene | CT,NH,NY,ME |
| 1,4-Dichlorobenzene | CT,NH,NY,ME |
| Dichlorodifluoromethane (Freon 12) | NY,ME |
| 1,1-Dichloroethane | CT,NH,NY,ME |
| 1,2-Dichloroethane | CT,NH,NY,ME |
| 1,1-Dichloroethylene | CT,NH,NY,ME |
| cis-1,2-Dichloroethylene | CT,NH,NY,ME |
| trans-1,2-Dichloroethylene | CT,NH,NY,ME |
| 1,2-Dichloropropane | CT,NH,NY,ME |
| 1,3-Dichloropropane | NH,NY,ME |
| 2,2-Dichloropropane | NH,NY,ME |
| 1,1-Dichloropropene | NH,NY,ME |

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## CERTIFICATIONS

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8260C in Product/Solid*** | |
| cis-1,3-Dichloropropene | CT,NH,NY,ME |
| trans-1,3-Dichloropropene | CT,NH,NY,ME |
| Ethylbenzene | CT,NH,NY,ME |
| Hexachlorobutadiene | NH,NY,ME |
| 2-Hexanone (MBK) | CT,NH,NY,ME |
| Isopropylbenzene (Cumene) | CT,NH,NY,ME |
| p-Isopropyltoluene (p-Cymene) | NH,NY |
| Methyl tert-Butyl Ether (MTBE) | NY |
| Methylene Chloride | CT,NH,NY,ME |
| 4-Methyl-2-pentanone (MIBK) | CT,NH,NY |
| Naphthalene | NH,NY,ME |
| n-Propylbenzene | NH,NY |
| Styrene | CT,NH,NY,ME |
| 1,1,1,2-Tetrachloroethane | CT,NH,NY,ME |
| 1,1,2,2-Tetrachloroethane | CT,NH,NY,ME |
| Tetrachloroethylene | CT,NH,NY,ME |
| Toluene | CT,NH,NY,ME |
| 1,2,4-Trichlorobenzene | NH,NY,ME |
| 1,1,1-Trichloroethane | CT,NH,NY,ME |
| 1,1,2-Trichloroethane | CT,NH,NY,ME |
| Trichloroethylene | CT,NH,NY,ME |
| Trichlorofluoromethane (Freon 11) | CT,NH,NY,ME |
| 1,2,3-Trichloropropane | NH,NY,ME |
| 1,2,4-Trimethylbenzene | CT,NH,NY,ME |
| 1,3,5-Trimethylbenzene | CT,NH,NY,ME |
| Vinyl Chloride | CT,NH,NY,ME |
| m+p Xylene | CT,NH,NY,ME |
| o-Xylene | CT,NH,NY,ME |
| ***SW-846 8270D in Product/Solid*** | |
| Acenaphthene | CT,NY,NH,ME,NC,VA,NJ |
| Acenaphthylene | CT,NY,NH,ME,NC,VA,NJ |
| Anthracene | CT,NY,NH,ME,NC,VA,NJ |
| Benzo(a)anthracene | CT,NY,NH,ME,NC,VA,NJ |
| Benzo(a)pyrene | CT,NY,NH,ME,NC,VA,NJ |
| Benzo(b)fluoranthene | CT,NY,NH,ME,NC,VA,NJ |
| Benzo(g,h,i)perylene | CT,NY,NH,ME,NC,VA,NJ |
| Benzo(k)fluoranthene | CT,NY,NH,ME,NC,VA,NJ |
| Chrysene | CT,NY,NH,ME,NC,VA,NJ |
| Dibenz(a,h)anthracene | CT,NY,NH,ME,NC,VA,NJ |
| Fluoranthene | CT,NY,NH,ME,NC,VA,NJ |
| Fluorene | CT,NY,NH,ME,NC,VA,NJ |
| Indeno(1,2,3-cd)pyrene | CT,NY,NH,ME,NC,VA,NJ |
| 2-Methylnaphthalene | CT,NY,NH,ME,NC,VA,NJ |
| Naphthalene | CT,NY,NH,ME,NC,VA,NJ |
| Phenanthrene | CT,NY,NH,ME,NC,VA,NJ |
| Pyrene | CT,NY,NH,ME,NC,VA,NJ |

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ANALYTICAL LABORATORY

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

| Code | Description | Number | Expires |
|---|---|---|---|
| AIHA | AIHA-LAP, LLC | 100033 | 02/1/2016 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2014 |
| CT | Connecticut Department of Publilc Health | PH-0567 | 09/30/2015 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2015 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2015 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2014 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2014 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2014 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2014 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2014 |
| WA | State of Washington Department of Ecology | C2065 | 02/23/2015 |
| ME | State of Maine | 2011028 | 06/9/2015 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2014 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2014 |

con-test ANALYTICAL LABORATORY
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www.contestlabs.com

# CHAIN OF CUSTODY RECORD

14F0442

Rev 04.05.12

39 Spruce Street
East longmeadow, MA 01028



Company Name: Cardno ATC
Address: 73 William Franks Dr. West Springfield
Attention: Rob Smith
Project Location: Chestnut St School
Sampled By: Elizabeth O'Connor

Telephone: (413) 781-0070
Project #: 081.28126.0287
Client PO#:

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #:
Email:
Format: O PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | TCLP RCRA 8 | 8270 PAH only | 8260 |
|---|---|---|---|---|---|---|---|---|---|---|
| 01 | Stockpile | 6.9.14 | 1330 | | X | O | U | X | X | X |
| | | | | | | | | | | |
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| | | | | | | | | | | |

# of Containers: 2 2 5
** Preservation: H H I
***Container Code: A A V

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other coal

Comments: Rec: Elizabeth 4.4°C 14:00

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

| Relinquished by: (signature) | Date/Time: |
|---|---|
| Elizabeth K. O'Connor | 6/9/14 1500 |
| Received by: (signature) | Date/Time: |
| Sample to refrigerator | 6/9/14 1500 |
| Relinquished by: (signature) | Date/Time: |
| Sample from refrigerator | 6/10 1600 |
| Received by: (signature) | Date/Time: |
| | 6-10-14 1600 |

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5 day
RUSH † ☐ †24-Hr ☐ †48-Hr ☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP?
O MCP Form Required 6-10-14 16:00
O RCP Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

6-10-14 1700

39 Spruce St.
East Longmeadow, MA. 01028
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F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



# Sample Receipt Checklist

**CLIENT NAME:** Cardno ATC **RECEIVED BY:** EZK **DATE:** 6-10-14

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No **No CoC Included**
2) **Does the chain agree with the samples?** (Yes) No
   If not, explain:
3) **Are all the samples in good condition?** (Yes) No
   If not, explain:
4) **How were the samples received:**

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

**Were the samples received in Temperature Compliance of (2-6°C)?** (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.4 °C

5) **Are there Dissolved samples for the lab to filter?** Yes (No)
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No (N/A) _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No N/A

## Containers received at Con-Test

| | # of containers | | # of containers |
|---|---|---|---|
| 1 Liter Amber | | 8 oz amber/clear jar | 4 |
| 500 mL Amber | | 4 oz amber/clear jar | |
| 250 mL Amber (8oz amber) | | 2 oz amber/clear jar | |
| 1 Liter Plastic | | Plastic Bag / Ziploc | |
| 500 mL Plastic | | SOC Kit | |
| 250 mL plastic | | Non-ConTest Container | |
| 40 mL Vial - type listed below | 5 | Perchlorate Kit | |
| Colisure / bacteria bottle | | Flashpoint bottle | |
| Dissolved Oxygen bottle | | Other glass jar | |
| Encore | | Other | |

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 1
# Bisulfate 2 # DI Water 2
# Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 6-10-14 16:00

**Login Sample Receipt Checklist**

**(Rejection Criteria Listing - Using Sample Acceptance Policy)**

**Any False statement will be brought to the attention of Client**

| Question | Answer (True/False) T/F/NA | Comment |
|---|---|---|
| 1) The cooler's custody seal, if present, is intact. | T | |
| 2) The cooler or samples do not appear to have been compromised or tampered with. | T | |
| 3) Samples were received on ice. | T | |
| 4) Cooler Temperature is acceptable. | T | |
| 5) Cooler Temperature is recorded. | T | |
| 6) COC is filled out in ink and legible. | T | |
| 7) COC is filled out with all pertinent information. | T | |
| 8) Field Sampler's name present on COC. | T | |
| 9) There are no discrepancies between the sample IDs on the container and the COC. | T | |
| 10) Samples are received within Holding Time. | T | |
| 11) Sample containers have legible labels. | T | |
| 12) Containers are not broken or leaking. | T | |
| 13) Air Cassettes are not broken/open. | NA | |
| 14) Sample collection date/times are provided. | T | |
| 15) Appropriate sample containers are used. | T | |
| 16) Proper collection media used. | T | |
| 17) No headspace sample bottles are completely filled. | NA | |
| 18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs. | T | |
| 19) Trip blanks provided if applicable. | T | |
| 20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter. | NA | |
| 21) Samples do not require splitting or compositing. | T | |

**Who notified of False statements?** **Date/Time:**

**Doc #277 Rev. 4 August 2013** **Log-In Technician Initials:** EZK **Date/Time:** 6-10-14 1600

| Parameter | Reportable Concentrations (RCs) | | MCP - Method 1 Cleanup Standards | | | | | | | | | | SAMPLING LOCATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RCS-1 | RCS-2 | S-1/GW-1 | S-1/GW-2 | S-1/GW-3 | S-2/GW-1 | S-2/GW-2 | S-2/GW-3 | S-3/GW-1 | S-3/GW-2 | S-3/GW-3 | UCL | Stockpile |
| Sampling Date | | | | | | | | | | | | | 6/9/2014 1:30:00 PM |
| Sample Depth | | | | | | | | | | | | | - Feet |
| ***SW-846 6010C (mg/L) 1311 TCLP EXT*** | | | | | | | | | | | | | |
| ARSENIC | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.010) |
| BARIUM | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.050) |
| CADMIUM | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0040) |
| CHROMIUM | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.010) |
| LEAD | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.010) |
| SELENIUM | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.050) |
| SILVER | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0050) |
| ***SW-846 7470A (mg/L) 1311 TCLP EXT*** | | | | | | | | | | | | | |
| MERCURY | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.00010) |
| ***SW-846 8260C (mg/Kg)*** | | | | | | | | | | | | | |
| ACETONE | 6 | 50 | 6 | 50 | 400 | 6 | 50 | 400 | 6 | 50 | 400 | 10000 | ND (0.092) |
| TERT-AMYLMETHYL ETHER | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.00092) |
| BENZENE | 2 | 200 | 2 | 40 | 40 | 2 | 200 | 200 | 2 | 400 | 1000 | 10000 | ND (0.0018) |
| BROMOBENZENE | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| BROMOCHLOROMETHANE | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0037) |
| BROMODICHLOROMETHANE | 0.1 | 0.1 | 0.1 | 0.1 | 30 | 0.1 | 0.1 | 100 | 0.1 | 0.1 | 500 | 5000 | ND (0.0018) |
| BROMOFORM | 0.1 | 1 | 0.1 | 1 | 300 | 0.1 | 1 | 800 | 0.1 | 1 | 800 | 10000 | ND (0.0018) |
| BROMOMETHANE | 0.5 | 0.5 | 0.5 | 0.5 | 30 | 0.5 | 0.5 | 30 | 0.5 | 0.5 | 30 | 6000 | ND (0.0092) |
| 2-BUTANONE (MEK) | 4 | 50 | 4 | 50 | 400 | 4 | 50 | 400 | 4 | 50 | 400 | 10000 | ND (0.037) |
| N-BUTYLBENZENE | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| SEC-BUTYLBENZENE | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| TERT-BUTYLBENZENE | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| TERT-BUTYLETHYL ETHER | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.00092) |
| CARBON DISULFIDE | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.018) |
| CARBON TETRACHLORIDE | 5 | 5 | 10 | 5 | 30 | 10 | 5 | 60 | 10 | 5 | 1000 | 10000 | ND (0.0018) |
| CHLOROBENZENE | 1 | 3 | 1 | 3 | 100 | 1 | 3 | 100 | 1 | 3 | 100 | 10000 | ND (0.0018) |
| CHLORODIBROMOMETHANE | 0.005 | 0.03 | 0.005 | 0.03 | 20 | 0.005 | 0.03 | 100 | 0.005 | 0.03 | 500 | 5000 | ND (0.00092) |
| CHLOROETHANE | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0092) |
| CHLOROFORM | 0.2 | 0.2 | 0.4 | 0.2 | 500 | 0.4 | 0.3 | 800 | 0.4 | 0.2 | 1000 | 10000 | ND (0.0037) |
| CHLOROMETHANE | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0092) |
| 2-CHLOROTOLUENE | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| 4-CHLOROTOLUENE | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| 1,2-DIBROMO-3-CHLOROPROPANE | 10 | 100 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| 1,2-DIBROMOETHANE (EDB) | 0.1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 4 | 0.1 | 0.1 | 40 | 400 | ND (0.00092) |
| DIBROMOMETHANE | 500 | 5000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| 1,2-DICHLOROBENZENE | 9 | 100 | 9 | 100 | 300 | 9 | 30 | 300 | 9 | 100 | 300 | 10000 | ND (0.0018) |
| 1,3-DICHLOROBENZENE | 3 | 200 | 3 | 100 | 100 | 1 | 40 | 500 | 3 | 200 | 500 | 5000 | ND (0.0018) |
| 1,4-DICHLOROBENZENE | 0.7 | 1 | 0.7 | 1 | 80 | 0.7 | 4 | 300 | 0.7 | 1 | 2000 | 10000 | ND (0.0018) |
| DICHLORODIFLUOROMETHANE | 1000 | 10000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0092) |
| 1,1-DICHLOROETHANE | 0.4 | 9 | 0.4 | 9 | 500 | 0.4 | 5 | 1000 | 0.4 | 9 | 1000 | 10000 | ND (0.0092) |
| 1,2-DICHLOROETHANE | 0.1 | 0.1 | 0.1 | 0.1 | 20 | 0.1 | 0.1 | 90 | 0.1 | 0.1 | 300 | 9000 | ND (0.0018) |
| 1,1-DICHLOROETHYLENE | 3 | 40 | 3 | 40 | 500 | 3 | 40 | 1000 | 3 | 40 | 3000 | 10000 | ND (0.0037) |
| CIS-1,2-DICHLOROETHYLENE | 0.1 | 0.1 | 0.3 | 0.1 | 100 | 0.3 | 0.4 | 500 | 0.3 | 0.1 | 500 | 5000 | ND (0.0018) |
| TRANS-1,2-DICHLOROETHYLENE | 1 | 1 | 1 | 1 | 500 | 1 | 1 | 1000 | 1 | 1 | 3000 | 10000 | ND (0.0018) |
| 1,2-DICHLOROPROPANE | 0.1 | 0.1 | 0.1 | 0.1 | 30 | 0.1 | 0.1 | 100 | 0.1 | 0.1 | 1000 | 10000 | ND (0.0018) |
| 1,3-DICHLOROPROPANE | 500 | 5000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.00092) |
| 2,2-DICHLOROPROPANE | 0.1 | 0.2 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| 1,1-DICHLOROPROPENE | 0.01 | 0.1 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| CIS-1,3-DICHLOROPROPENE | 0.01 | 0.1 | 0.01 | 0.4 | 9 | 0.01 | 0.4 | 70 | 0.01 | 0.4 | 100 | 4000 | ND (0.00092) |
| TRANS-1,3-DICHLOROPROPENE | 0.01 | 0.1 | 0.01 | 0.4 | 9 | 0.01 | 0.4 | 70 | 0.01 | 0.4 | 100 | 4000 | ND (0.0018) |
| DIETHYL ETHER | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0092) |
| DIISOPROPYL ETHER | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.00092) |
| 1,4-DIOXANE | 0.2 | 6 | 0.2 | 6 | 20 | 0.2 | 6 | 500 | 0.2 | 6 | 500 | 5000 | ND (0.092) |
| ETHYLBENZENE | 40 | 1000 | 40 | 500 | 500 | 40 | 1000 | 1000 | 40 | 1000 | 3000 | 10000 | ND (0.0018) |
| HEXACHLOROBUTADIENE | 30 | 100 | 30 | 30 | 30 | 90 | 90 | 90 | 100 | 100 | 100 | 1000 | ND (0.0018) |
| 2-HEXANONE | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.018) |
| ISOPROPYLBENZENE | 1000 | 10000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| P-ISOPROPYLTOLUENE | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| METHYL TERT-BUTYL ETHER (MTBE) | 0.1 | 100 | 0.1 | 100 | 100 | 0.1 | 100 | 500 | 0.1 | 100 | 500 | 5000 | ND (0.0037) |
| METHYLENE CHLORIDE | 0.1 | 20 | 0.1 | 20 | 200 | 0.1 | 20 | 900 | 0.1 | 20 | 900 | 10000 | ND (0.0092) |
| 4-METHYL-2-PENTANONE (MIBK) | 0.4 | 50 | 0.4 | 50 | 400 | 0.4 | 50 | 400 | 0.4 | 50 | 400 | 10000 | ND (0.018) |
| NAPHTHALENE | 4 | 20 | 4 | 20 | 500 | 4 | 40 | 1000 | 4 | 20 | 3000 | 10000 | ND (0.0092) |
| N-PROPYLBENZENE | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| STYRENE | 3 | 4 | 3 | 4 | 70 | 3 | 4 | 200 | 3 | 4 | 2000 | 10000 | ND (0.0018) |
| 1,1,1,2-TETRACHLOROETHANE | 0.1 | 0.1 | 0.1 | 0.1 | 80 | 0.1 | 0.1 | 100 | 0.1 | 0.1 | 500 | 5000 | ND (0.0018) |
| 1,1,2,2-TETRACHLOROETHANE | 0.005 | 0.02 | 0.005 | 0.02 | 10 | 0.005 | 0.02 | 10 | 0.005 | 0.02 | 400 | 4000 | ND (0.00092) |
| TETRACHLOROETHYLENE | 1 | 10 | 1 | 10 | 30 | 1 | 10 | 200 | 1 | 10 | 1000 | 10000 | ND (0.0018) |
| TETRAHYDROFURAN | 500 | 5000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0092) |
| TOLUENE | 30 | 1000 | 30 | 500 | 500 | 30 | 1000 | 1000 | 30 | 2000 | 3000 | 10000 | ND (0.0018) |
| 1,2,3-TRICHLOROBENZENE | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0037) |
| 1,2,4-TRICHLOROBENZENE | 2 | 6 | 2 | 6 | 700 | 2 | 70 | 900 | 2 | 6 | 5000 | 10000 | ND (0.0018) |
| 1,1,1-TRICHLOROETHANE | 30 | 600 | 30 | 500 | 500 | 30 | 600 | 1000 | 30 | 600 | 3000 | 10000 | ND (0.0018) |
| 1,1,2-TRICHLOROETHANE | 0.1 | 2 | 0.1 | 2 | 40 | 0.1 | 2 | 60 | 0.1 | 2 | 500 | 5000 | ND (0.0018) |
| TRICHLOROETHYLENE | 0.3 | 0.3 | 0.3 | 0.3 | 30 | 0.3 | 2 | 700 | 0.3 | 0.3 | 60 | 600 | ND (0.0018) |
| TRICHLOROFLUOROMETHANE | 1000 | 10000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0092) |
| 1,2,3-TRICHLOROPROPANE | 100 | 1000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| 1,2,4-TRIMETHYLBENZENE | 1000 | 10000 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| 1,3,5-TRIMETHYLBENZENE | 10 | 100 | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ND (0.0018) |
| VINYL CHLORIDE | 0.7 | 0.7 | 0.9 | 0.7 | 1 | 0.9 | 0.7 | 4 | 0.9 | 0.7 | 60 | 600 | ND (0.0092) |
| M/P-XYLENE | 100 | 100 | 400 | 100 | 500 | 400 | 300 | 1000 | 400 | 100 | 3000 | 10000 | ND (0.0037) |
| O-XYLENE | 100 | 100 | 400 | 100 | 500 | 400 | 300 | 1000 | 400 | 100 | 3000 | 10000 | ND (0.0018) |
| ***SW-846 8270D (mg/Kg)*** | | | | | | | | | | | | | |
| ACENAPHTHENE | 4 | 3000 | 4 | 1000 | 1000 | 4 | 3000 | 3000 | 4 | 5000 | 5000 | 10000 | ND (0.84) |
| ACENAPHTHYLENE | 1 | 10 | 1 | 600 | 10 | 1 | 600 | 10 | 1 | 600 | 10 | 10000 | ND (0.84) |
| ANTHRACENE | 1000 | 3000 | 1000 | 1000 | 1000 | 3000 | 3000 | 3000 | 5000 | 5000 | 5000 | 10000 | ND (0.84) |
| BENZO(A)ANTHRACENE | 7 | 40 | 7 | 7 | 7 | 40 | 40 | 40 | 300 | 300 | 300 | 3000 | ND (0.84) |
| BENZO(A)PYRENE | 2 | 7 | 2 | 2 | 2 | 4 | 4 | 4 | 30 | 30 | 30 | 300 | ND (0.84) |
| BENZO(B)FLUORANTHENE | 7 | 40 | 7 | 7 | 7 | 40 | 40 | 40 | 300 | 300 | 300 | 3000 | ND (0.84) |
| BENZO(G,H,I)PERYLENE | 1000 | 3000 | 1000 | 1000 | 1000 | 3000 | 3000 | 3000 | 5000 | 5000 | 5000 | 10000 | ND (0.84) |
| BENZO(K)FLUORANTHENE | 70 | 400 | 70 | 70 | 70 | 400 | 400 | 400 | 3000 | 3000 | 3000 | 10000 | ND (0.84) |
| CHRYSENE | 70 | 400 | 70 | 70 | 70 | 400 | 400 | 400 | 3000 | 3000 | 3000 | 10000 | ND (0.84) |
| DIBENZ(A,H)ANTHRACENE | 0.7 | 4 | 0.7 | 0.7 | 0.7 | 4 | 4 | 4 | 30 | 30 | 30 | 300 | **ND (0.84) *** |
| FLUORANTHENE | 1000 | 3000 | 1000 | 1000 | 1000 | 3000 | 3000 | 3000 | 5000 | 5000 | 5000 | 10000 | ND (0.84) |
| FLUORENE | 1000 | 3000 | 1000 | 1000 | 1000 | 3000 | 3000 | 3000 | 5000 | 5000 | 5000 | 10000 | ND (0.84) |
| INDENO(1,2,3-CD)PYRENE | 7 | 40 | 7 | 7 | 7 | 40 | 40 | 40 | 300 | 300 | 300 | 3000 | ND (0.84) |
| 2-METHYLNAPHTHALENE | 0.7 | 80 | 0.7 | 80 | 300 | 0.7 | 80 | 500 | 1 | 80 | 500 | 5000 | **ND (0.84) *** |
| NAPHTHALENE | 4 | 20 | 4 | 20 | 500 | 4 | 40 | 1000 | 4 | 20 | 3000 | 10000 | 0.84 |
| PHENANTHRENE | 10 | 1000 | 10 | 500 | 500 | 10 | 1000 | 1000 | 20 | 3000 | 3000 | 10000 | ND (0.84) |
| PYRENE | 1000 | 3000 | 1000 | 1000 | 1000 | 3000 | 3000 | 3000 | 5000 | 5000 | 5000 | 10000 | ND (0.84) |

NOTES:

1. An asterisk (*) following a detection limit indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.
2. ND = Not detected above the lab reporting limits shown in parenthesis.
3. NT = Not tested.
4. ~ = No Method 1 Standard or UCL available
5. Shaded values exceed the MCP Reportable Concentrations (RCs).
6. Bolded values exceed the Method 1 Cleanup Standards.
7. Con-Test Laboratory is not responsible for the regulatory content, data comparisons with regulations, or decisions made based on data comparisons shown in this deliverable. Please notify us should you be aware of any regulatory information that may not be correct or that has changed.