**LABORATORY DATA CONSULTANTS, INC.**
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

IWM Consulting Group
7428 Rockville Road
Indianapolis, IN 46214
ATTN: Brad Gentry
bgentry@iwmconsult.com

March 29, 2019

SUBJECT: Former Amphenol Facility, Data Validation

Dear Mr. Gentry,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on March 5, 2019. Attachment 1 is a summary of the samples that were reviewed for each analysis.

**LDC Project #44489_AC:**

| **SDG #** | **Fraction:** |
|---|---|
| 50218035 | Volatiles |
| 50218176 | |

The data validation was performed under Level III & IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- Design-Level Data Soil Investigation Work Plan, Franklin Power Products, Inc./Amphenol Corporation, Franklin, Indiana; February 2019
- Additional Off-Site Groundwater Investigation Work Plan, Franklin Power Products, Inc./Amphenol Corporation, Franklin, Indiana; February 2019
- USEPA National Functional Guidelines for Organic Superfund Methods Data Review; January 2017
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

Email DVR/cc: cparks@iwmconsult.com

200 pages-EM 1 WEEK TAT L4 rec'd 3/26/19 Attachment 1

90/10

# LDC #44489 (IWM Consulting Group - Indianapolis, IN / Former Amphenol Facility)

| LDC | SDG# | DATE REC'D | (3) DATE DUE | (9) VOA (8260C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Matrix: | Water/Soil | | | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S | W | S |
| A | 50218035 | 03/05/19 | 03/12/19 | 2 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 50218035 | 03/05/19 | 03/12/19 | 0 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 50218159 | 03/05/19 | 03/12/19 | 1 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 50218176 | 03/05/19 | 03/12/19 | 2 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | T/PG | | | 5 | 102 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 107 |

Shaded cells indicate Level IV validation (all other cells are Level III validation). These counts do not include MS, MSD, Dups.

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**LDC Report#** 44489A1a

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** Former Amphenol Facility

**LDC Report Date:** March 6, 2019

**Parameters:** Volatiles

**Validation Level:** Level III & IV

**Laboratory:** Pace Analytical Services, LLC.

**Sample Delivery Group (SDG):** 50218035

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|---|---|---|---|
| DSB-17 SL (8.8-9.8)** | 50218035001** | Soil | 02/26/19 |
| DSB-17 SL (10.5-11.5)** | 50218035002** | Soil | 02/26/19 |
| DSB-17 SL (12.75-13.75)** | 50218035003** | Soil | 02/26/19 |
| DSB-18 SL (8.8-9.8)** | 50218035004** | Soil | 02/26/19 |
| DSB-18 SL (10.5-11.5)** | 50218035005** | Soil | 02/26/19 |
| DSB-18 SL (12.5-13.5)** | 50218035006** | Soil | 02/26/19 |
| DSB-19 SL (8.8-9.8)** | 50218035007** | Soil | 02/26/19 |
| DSB-19 SL (10.6-11.6)** | 50218035008** | Soil | 02/26/19 |
| DSB-19 SL (13.5-14.5)** | 50218035009** | Soil | 02/26/19 |
| DSB-20 SL (8.9-9.9)** | 50218035010** | Soil | 02/26/19 |
| DSB-20 SL (10.6-11.6)** | 50218035011** | Soil | 02/26/19 |
| DSB-20 SL (13-14) | 50218035012 | Soil | 02/26/19 |
| DSB-21 SL (8.7-9.7) | 50218035013 | Soil | 02/26/19 |
| DSB-21 SL (10.7-11.7) | 50218035014 | Soil | 02/26/19 |
| DSB-21 SL (12.5-13.5) | 50218035015 | Soil | 02/26/19 |
| DSB-21 SL (14-15) | 50218035016 | Soil | 02/26/19 |
| DSB-22 SL (8.1-9.1) | 50218035017 | Soil | 02/26/19 |
| DSB-22 SL (10.1-11.1) | 50218035018 | Soil | 02/26/19 |
| DSB-22 SL (12-13) | 50218035019 | Soil | 02/26/19 |
| DSB-23 SL (7.2-8.2) | 50218035020 | Soil | 02/27/19 |
| DSB-23 SL (9.2-10.2) | 50218035021 | Soil | 02/27/19 |
| DSB-23 SL (11-12) | 50218035022 | Soil | 02/27/19 |
| DSB-23 SL (12.75-13.75) | 50218035023 | Soil | 02/27/19 |
| EB-3 WT | 50218035024 | Water | 02/27/19 |
| DSB-24 SL (5.5-6.5) | 50218035025 | Soil | 02/27/19 |
| DSB-24 SL (7.9-8.9) | 50218035026 | Soil | 02/27/19 |
| DSB-24 SL (9.25-10.25) | 50218035027 | Soil | 02/27/19 |

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|---|---|---|---|
| DSB-25 SL (5.4-6.4) | 50218035028 | Soil | 02/27/19 |
| DSB-25 SL (7.6-8.6) | 50218035029 | Soil | 02/27/19 |
| DSB-25 SL (6.5-7.5) | 50218035030 | Soil | 02/27/19 |
| DSB-26 SL (5.4-6.4) | 50218035031 | Soil | 02/27/19 |
| DSB-26 SL (7.6-8.6) | 50218035032 | Soil | 02/27/19 |
| DSB-26 SL (6.5-7.5) | 50218035033 | Soil | 02/27/19 |
| DSB-27 SL (5.3-6.3) | 50218035034 | Soil | 02/27/19 |
| DSB-27 SL (7.5-8.5) | 50218035035 | Soil | 02/27/19 |
| DSB-28 SL (5.3-6.3) | 50218035036 | Soil | 02/27/19 |
| DSB-28 SL (7.5-8.5) | 50218035037 | Soil | 02/27/19 |
| DSB-29 SL (4.6-5.6) | 50218035038 | Soil | 02/27/19 |
| DSB-29 SL (6.8-7.8) | 50218035039 | Soil | 02/27/19 |
| DSB-30 SL (5.3-6.3) | 50218035040 | Soil | 02/27/19 |
| DSB-30 SL (7.5-8.5) | 50218035041 | Soil | 02/27/19 |
| DSB-31 SL (5.4-6.4) | 50218035042 | Soil | 02/27/19 |
| DSB-31 SL (7.6-8.6) | 50218035043 | Soil | 02/27/19 |
| DSB-31 SL (8.75-9.75) | 50218035044 | Soil | 02/27/19 |
| DSB-32 SL (5.8-6.8) | 50218035045 | Soil | 02/27/19 |
| DSB-32 SL (7.9-8.9) | 50218035046 | Soil | 02/27/19 |
| DSB-32 SL (9-10) | 50218035047 | Soil | 02/27/19 |
| DSB-33 SL (6.7-7.7) | 50218035048 | Soil | 02/27/19 |
| DSB-33 SL (8.7-9.7) | 50218035049 | Soil | 02/27/19 |
| DSB-34 SL (7.7-8.7) | 50218035050 | Soil | 02/27/19 |
| DSB-34 SL (9.7-10.7) | 50218035051 | Soil | 02/27/19 |
| DSB-34 SL (11-11.5) | 50218035052 | Soil | 02/27/19 |
| DSB-35 SL (6-7) | 50218035053 | Soil | 02/27/19 |
| DSB-35 SL (7.7-8.7) | 50218035054 | Soil | 02/27/19 |
| DSB-35 SL (9.5-10.5) | 50218035055 | Soil | 02/27/19 |
| DSB-35 SL (11.25-12.25) | 50218035056 | Soil | 02/27/19 |
| FD-7 SL | 50218035057 | Soil | 02/27/19 |
| FD-8 SL | 50218035058 | Soil | 02/27/19 |
| FD-9 SL | 50218035059 | Soil | 02/27/19 |
| FD-10 SL | 50218035060 | Soil | 02/27/19 |
| FD-11 SL | 50218035061 | Soil | 02/27/19 |
| FD-12 SL | 50218035062 | Soil | 02/27/19 |
| TB-3 WT | 50218035063 | Water | 02/27/19 |
| DSB-22 SL (8.1-9.1)MS | 50218035017MS | Soil | 02/26/19 |
| DSB-22 SL (8.1-9.1)MSD | 50218035017MSD | Soil | 02/26/19 |
| DSB-29 SL (6.8-7.8)MS | 50218035039MS | Soil | 02/27/19 |
| DSB-29 SL (6.8-7.8)MSD | 50218035039MSD | Soil | 02/27/19 |
| DSB-35 SL (9.5-10.5)MS | 50218035055MS | Soil | 02/27/19 |
| DSB-35 SL (9.5-10.5)MSD | 50218035055MSD | Soil | 02/27/19 |

**Indicates sample underwent Level IV validation

## Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Design-Level Data Soil Investigation work Plan, Franklin Power Products, Inc./Amphenol Corporation, Franklin, Indiana (February 2019), and a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260C

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results. Samples appended with a double asterisk on the cover page were subjected to Level IV data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

## I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

## II. GC/MS Instrument Performance Check

A bromofluorobenzene (BFB) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

## III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For compounds where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination ($r^2$) were greater than or equal to 0.990.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

## IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

## V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

## VI. Field Blanks

Sample TB-3 WT was identified as a trip blank. No contaminants were found.

Sample EB-3 WT was identified as an equipment blank. No contaminants were found.

## VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

## VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

| Spike ID (Associated Samples) | Compound | MS (%R) (Limits) | MSD (%R) (Limits) | Flag | A or P |
|---|---|---|---|---|---|
| DSB-35 SL (9.5-10.5)MS/MSD (DSB-35 SL (9.5-10.5)) | Trichloroethene<br>Vinyl chloride | 30 (31-149)<br>1 (46-171) | 5 (31-149)<br>1 (46-171) | J (all detects)<br>UJ (all non-detects)<br>J (all detects)<br>UJ (all non-detects) | A |

Relative percent differences (RPD) were within QC limits with the following exceptions:

| Spike ID (Associated Samples) | Compound | RPD (Limits) | Flag | A or P |
|---|---|---|---|---|
| DSB-22 SL (8.1-9.1)MS/MSD (DSB-22 SL (8.1-9.1)) | Tetrachloroethene<br>Trichloroethene | 31 (≤20)<br>21 (≤20) | J (all detects)<br>J (all detects) | A |

## IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with the following exceptions:

| LCS ID (Associated Samples) | Compound | %R (Limits) | Flag | A or P |
|---|---|---|---|---|
| LCS 2245533 (EB-3 WT TB-3 WT) | trans-1,2-Dichloroethene | 124 (75-121) | NA | - |

## X. Field Duplicates

Samples DSB-17 SL (12.75-13.75)** and FD-7 SL, samples DSB-21 SL (14-15) and FD-8 SL, samples DSB-25 SL (5.4-6.4) and FD-9 SL, samples DSB-28 SL (7.5-8.5) and FD-10 SL, samples DSB-32 SL (9-10) and FD-11 SL, and samples DSB-34 SL (7.7-8.7) and FD-12 SL were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Compound | Concentration (mg/Kg) | | RPD |
|---|---|---|---|
| | DSB-17 SL (12.75-13.75)** | FD-7 SL | |
| Tetrachloroethene | 0.23 | 0.14 | 49 |
| 1,1,1-Trichloroethane | 0.013 | 0.011 | 17 |
| Trichloroethene | 0.10 | 0.088 | 13 |

| Compound | Concentration (mg/Kg) | | RPD |
|---|---|---|---|
| | DSB-21 SL (14-15) | FD-8 SL | |
| Tetrachloroethene | 0.13 | 0.082 | 45 |
| 1,1,1-Trichloroethane | 0.010 | 0.0059 | 52 |
| Trichloroethene | 0.098 | 0.057 | 53 |

| Compound | Concentration (mg/Kg) | | RPD |
|---|---|---|---|
| | DSB-25 SL (5.4-6.4) | FD-9 SL | |
| 1,1,1-Trichloroethane | 0.0084 | 0.015 | 56 |

| Compound | Concentration (mg/Kg) | | RPD |
|---|---|---|---|
| | DSB-28 SL (7.5-8.5) | FD-10 SL | |
| 1,1,1-Trichloroethane | 0.11 | 0.017 | 146 |

| Compound | Concentration (mg/Kg) | | RPD |
|---|---|---|---|
| | DSB-34 SL (7.7-8.7) | FD-12 SL | |
| Tetrachloroethene | 0.0041 | 0.0055 | 29 |
| 1,1,1-Trichloroethane | 0.0010 | 0.0014 | 33 |
| Trichloroethene | 0.011 | 0.014 | 24 |

## XI. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

| Sample | Internal Standards | Area (Limits) | Affected Compound | Flag | A or P |
|---|---|---|---|---|---|
| DSB-23 SL (11-12) | Chlorobenzene-d5 | 29247 (29573-118292) | Tetrachloroethene | UJ (all non-detects) | P |
| DSB-25 SL (5.4-6.4) | Fluorobenzene | 38172 (38644.5-154578) | 1,1-Dichloroethane<br>1,2-Dichloroethane<br>cis-1,2-Dichloroethene<br>trans-1,2-Dichloroethene<br>Methylene chloride<br>1,1,1-Trichloroethane<br>Trichloroethene<br>Vinyl chloride | J (all detects)<br>UJ (all non-detects) | P |
| DSB-25 SL (6.5-7.5) | Fluorobenzene<br>Chlorobenzene-d5 | 28832 (38644.5-154578)<br>24140 (29573-118292) | All compounds | UJ (all non-detects) | P |
| DSB-27 SL (7.5-8.5) | Chlorobenzene-d5 | 24307 (26668-106672) | Tetrachloroethene | UJ (all non-detects) | P |
| DSB-29 SL (6.8-7.8) | Chlorobenzene-d5 | 26071 (29075.5-116302) | Tetrachloroethene | UJ (all non-detects) | A |

## XII. Compound Quantitation

All compound quantitations met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

## XIII. Target Compound Identifications

All target compound identifications met validation criteria for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

## XIV. System Performance

The system performance was acceptable for samples which underwent Level IV validation. Raw data were not reviewed for Level III validation.

## XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to MS/MSD %R and RPD and internal standard area, data were qualified as estimated in seven samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

## Former Amphenol Facility
## Volatiles - Data Qualification Summary - SDG 50218035

| Sample | Compound | Flag | A or P | Reason |
|---|---|---|---|---|
| DSB-35 SL (9.5-10.5) | Trichloroethene<br>Vinyl chloride | J (all detects)<br>UJ (all non-detects)<br>J (all detects)<br>UJ (all non-detects) | A | Matrix spike/Matrix spike duplicate (%R) |
| DSB-22 SL (8.1-9.1) | Tetrachloroethene<br>Trichloroethene | J (all detects)<br>J (all detects) | A | Matrix spike/Matrix spike duplicate (RPD) |
| DSB-23 SL (11-12)<br>DSB-27 SL (7.5-8.5) | Tetrachloroethene | UJ (all non-detects) | P | Internal standards (area) |
| DSB-25 SL (5.4-6.4) | 1,1-Dichloroethane<br>1,2-Dichloroethane<br>cis-1,2-Dichloroethene<br>trans-1,2-Dichloroethene<br>Methylene chloride<br>1,1,1-Trichloroethane<br>Trichloroethene<br>Vinyl chloride | J (all detects)<br>UJ (all non-detects) | P | Internal standards (area) |
| DSB-25 SL (6.5-7.5) | All compounds | UJ (all non-detects) | P | Internal standards (area) |
| DSB-29 SL (6.8-7.8) | Tetrachloroethene | UJ (all non-detects) | A | Internal standards (area) |

## Former Amphenol Facility
## Volatiles - Laboratory Blank Data Qualification Summary - SDG 50218035

No Sample Data Qualified in this SDG

## Former Amphenol Facility
## Volatiles - Field Blank Data Qualification Summary - SDG 50218035

No Sample Data Qualified in this SDG

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-17 SL (8.8-9.8)** **Lab ID: 50218035001** Collected: 02/26/19 13:25 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.00031 | 1 | | 02/28/19 14:42 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00033 | 1 | | 02/28/19 14:42 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00027 | 1 | | 02/28/19 14:42 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00035 | 1 | | 02/28/19 14:42 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0071 | 1 | | 02/28/19 14:42 | 75-09-2 | M5 |
| Tetrachloroethene | **0.048** | mg/kg | 0.0050 | 0.00031 | 1 | | 02/28/19 14:42 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.00034 | 1 | | 02/28/19 14:42 | 71-55-6 | M5 |
| Trichloroethene | **0.013** | mg/kg | 0.0050 | 0.00033 | 1 | | 02/28/19 14:42 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0050 | 1 | | 02/28/19 14:42 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 02/28/19 14:42 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 101 | %. | 72-136 | | 1 | | 02/28/19 14:42 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 02/28/19 14:42 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.6** | % | 0.10 | 0.10 | 1 | | 02/27/19 16:52 | | |



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without the written consent of Pace Analytical Services, LLC.



LT 03/28/19

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-17 SL (10.5-11.5)** **Lab ID: 50218035002** Collected: 02/26/19 13:15 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0046 | 0.00029 | 1 | | 02/28/19 15:16 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0046 | 0.00030 | 1 | | 02/28/19 15:16 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0046 | 0.00025 | 1 | | 02/28/19 15:16 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0046 | 0.00032 | 1 | | 02/28/19 15:16 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.018 | 0.0066 | 1 | | 02/28/19 15:16 | 75-09-2 | M5 |
| Tetrachloroethene | **0.18** | mg/kg | 0.0046 | 0.00029 | 1 | | 02/28/19 15:16 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0042J** | mg/kg | 0.0046 | 0.00031 | 1 | | 02/28/19 15:16 | 71-55-6 | M5 |
| Trichloroethene | **0.046** | mg/kg | 0.0046 | 0.00030 | 1 | | 02/28/19 15:16 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0046 | 0.0046 | 1 | | 02/28/19 15:16 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 02/28/19 15:16 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 106 | %. | 72-136 | | 1 | | 02/28/19 15:16 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 91 | %. | 57-130 | | 1 | | 02/28/19 15:16 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **7.6** | % | 0.10 | 0.10 | 1 | | 02/27/19 16:52 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-17 SL (12.75-13.75)** **Lab ID: 50218035003** Collected: 02/26/19 13:20 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0053 | 0.00033 | 1 | | 02/28/19 15:50 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0053 | 0.00035 | 1 | | 02/28/19 15:50 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00029 | 1 | | 02/28/19 15:50 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00037 | 1 | | 02/28/19 15:50 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.0076 | 1 | | 02/28/19 15:50 | 75-09-2 | M5 |
| Tetrachloroethene | **0.23** | mg/kg | 0.0053 | 0.00033 | 1 | | 02/28/19 15:50 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.013** | mg/kg | 0.0053 | 0.00036 | 1 | | 02/28/19 15:50 | 71-55-6 | M5 |
| Trichloroethene | **0.10** | mg/kg | 0.0053 | 0.00035 | 1 | | 02/28/19 15:50 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 02/28/19 15:50 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 02/28/19 15:50 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 107 | %. | 72-136 | | 1 | | 02/28/19 15:50 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 02/28/19 15:50 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **15.5** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:17 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-18 SL (8.8-9.8)** **Lab ID: 50218035004** Collected: 02/26/19 13:50 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0053 | 0.00033 | 1 | | 02/28/19 16:25 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0053 | 0.00035 | 1 | | 02/28/19 16:25 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00029 | 1 | | 02/28/19 16:25 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00037 | 1 | | 02/28/19 16:25 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.0076 | 1 | | 02/28/19 16:25 | 75-09-2 | M5 |
| Tetrachloroethene | **0.031** | mg/kg | 0.0053 | 0.00033 | 1 | | 02/28/19 16:25 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0053 | 0.00036 | 1 | | 02/28/19 16:25 | 71-55-6 | M5 |
| Trichloroethene | **0.0098** | mg/kg | 0.0053 | 0.00035 | 1 | | 02/28/19 16:25 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 02/28/19 16:25 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 02/28/19 16:25 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 106 | %. | 72-136 | | 1 | | 02/28/19 16:25 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 93 | %. | 57-130 | | 1 | | 02/28/19 16:25 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.4** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:17 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-18 SL (10.5-11.5)** **Lab ID: 50218035005** Collected: 02/26/19 13:55 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.00031 | 1 | | 02/28/19 16:59 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00033 | 1 | | 02/28/19 16:59 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00027 | 1 | | 02/28/19 16:59 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00035 | 1 | | 02/28/19 16:59 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0071 | 1 | | 02/28/19 16:59 | 75-09-2 | M5 |
| Tetrachloroethene | **0.12** | mg/kg | 0.0050 | 0.00031 | 1 | | 02/28/19 16:59 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0036J** | mg/kg | 0.0050 | 0.00034 | 1 | | 02/28/19 16:59 | 71-55-6 | M5 |
| Trichloroethene | **0.036** | mg/kg | 0.0050 | 0.00033 | 1 | | 02/28/19 16:59 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0050 | 1 | | 02/28/19 16:59 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 02/28/19 16:59 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 102 | %. | 72-136 | | 1 | | 02/28/19 16:59 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 95 | %. | 57-130 | | 1 | | 02/28/19 16:59 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.2** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:17 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-18 SL (12.5-13.5)** **Lab ID: 50218035006** Collected: 02/26/19 14:00 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0056 | 0.00035 | 1 | | 02/28/19 17:34 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0056 | 0.00037 | 1 | | 02/28/19 17:34 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0056 | 0.00030 | 1 | | 02/28/19 17:34 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0056 | 0.00039 | 1 | | 02/28/19 17:34 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.022 | 0.0080 | 1 | | 02/28/19 17:34 | 75-09-2 | M5 |
| Tetrachloroethene | **0.26** | mg/kg | 0.0056 | 0.00035 | 1 | | 02/28/19 17:34 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.018** | mg/kg | 0.0056 | 0.00038 | 1 | | 02/28/19 17:34 | 71-55-6 | M5 |
| Trichloroethene | **0.14** | mg/kg | 0.0056 | 0.00037 | 1 | | 02/28/19 17:34 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0056 | 0.0056 | 1 | | 02/28/19 17:34 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 103 | %. | 80-127 | | 1 | | 02/28/19 17:34 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 103 | %. | 72-136 | | 1 | | 02/28/19 17:34 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 95 | %. | 57-130 | | 1 | | 02/28/19 17:34 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **14.1** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:17 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-19 SL (8.8-9.8)** **Lab ID: 50218035007** Collected: 02/26/19 14:30 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0044 | 0.00027 | 1 | | 02/28/19 18:08 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0044 | 0.00029 | 1 | | 02/28/19 18:08 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0044 | 0.00023 | 1 | | 02/28/19 18:08 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0044 | 0.00030 | 1 | | 02/28/19 18:08 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.017 | 0.0062 | 1 | | 02/28/19 18:08 | 75-09-2 | M5 |
| Tetrachloroethene | **0.012** | mg/kg | 0.0044 | 0.00027 | 1 | | 02/28/19 18:08 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0044 | 0.00030 | 1 | | 02/28/19 18:08 | 71-55-6 | M5 |
| Trichloroethene | **0.0038J** | mg/kg | 0.0044 | 0.00029 | 1 | | 02/28/19 18:08 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0044 | 0.0044 | 1 | | 02/28/19 18:08 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 02/28/19 18:08 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 101 | %. | 72-136 | | 1 | | 02/28/19 18:08 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 99 | %. | 57-130 | | 1 | | 02/28/19 18:08 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.7** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:17 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-19 SL (10.6-11.6)** **Lab ID: 50218035008** Collected: 02/26/19 14:25 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0043 | 0.00027 | 1 | | 02/28/19 18:42 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0043 | 0.00029 | 1 | | 02/28/19 18:42 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 0.00023 | 1 | | 02/28/19 18:42 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 0.00030 | 1 | | 02/28/19 18:42 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.017 | 0.0062 | 1 | | 02/28/19 18:42 | 75-09-2 | M5 |
| Tetrachloroethene | **0.083** | mg/kg | 0.0043 | 0.00027 | 1 | | 02/28/19 18:42 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0023J** | mg/kg | 0.0043 | 0.00029 | 1 | | 02/28/19 18:42 | 71-55-6 | M5 |
| Trichloroethene | **0.025** | mg/kg | 0.0043 | 0.00029 | 1 | | 02/28/19 18:42 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0043 | 0.0043 | 1 | | 02/28/19 18:42 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 02/28/19 18:42 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 103 | %. | 72-136 | | 1 | | 02/28/19 18:42 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 02/28/19 18:42 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.9** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:18 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-19 SL (13.5-14.5)** **Lab ID: 50218035009** Collected: 02/26/19 14:20 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0049 | 0.00031 | 1 | | 02/28/19 19:17 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00033 | 1 | | 02/28/19 19:17 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00027 | 1 | | 02/28/19 19:17 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00035 | 1 | | 02/28/19 19:17 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0071 | 1 | | 02/28/19 19:17 | 75-09-2 | M5 |
| Tetrachloroethene | **3.2** | mg/kg | 0.26 | 0.016 | 50 | | 03/01/19 10:45 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.028** | mg/kg | 0.0049 | 0.00034 | 1 | | 02/28/19 19:17 | 71-55-6 | M5 |
| Trichloroethene | **0.23** | mg/kg | 0.0049 | 0.00033 | 1 | | 02/28/19 19:17 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 19:17 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 02/28/19 19:17 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 107 | %. | 72-136 | | 1 | | 02/28/19 19:17 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 92 | %. | 57-130 | | 1 | | 02/28/19 19:17 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **12.2** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:18 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-20 SL (8.9-9.9)** **Lab ID: 50218035010** Collected: 02/26/19 14:30 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0090 | 0.00056 | 1 | | 02/28/19 19:51 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0090 | 0.00059 | 1 | | 02/28/19 19:51 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0090 | 0.00049 | 1 | | 02/28/19 19:51 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0090 | 0.00063 | 1 | | 02/28/19 19:51 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.036 | 0.013 | 1 | | 02/28/19 19:51 | 75-09-2 | M5 |
| Tetrachloroethene | **0.031** | mg/kg | 0.0090 | 0.00056 | 1 | | 02/28/19 19:51 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0090 | 0.00061 | 1 | | 02/28/19 19:51 | 71-55-6 | M5 |
| Trichloroethene | **0.0074J** | mg/kg | 0.0090 | 0.00059 | 1 | | 02/28/19 19:51 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0090 | 0.0090 | 1 | | 02/28/19 19:51 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 02/28/19 19:51 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 100 | %. | 72-136 | | 1 | | 02/28/19 19:51 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 99 | %. | 57-130 | | 1 | | 02/28/19 19:51 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **7.5** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:18 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-20 SL (10.6-11.6)** **Lab ID: 50218035011** Collected: 02/26/19 14:35 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0049 | 0.00031 | 1 | | 02/28/19 20:25 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00033 | 1 | | 02/28/19 20:25 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00027 | 1 | | 02/28/19 20:25 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00035 | 1 | | 02/28/19 20:25 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0071 | 1 | | 02/28/19 20:25 | 75-09-2 | M5 |
| Tetrachloroethene | **0.076** | mg/kg | 0.0049 | 0.00031 | 1 | | 02/28/19 20:25 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0018J** | mg/kg | 0.0049 | 0.00034 | 1 | | 02/28/19 20:25 | 71-55-6 | M5 |
| Trichloroethene | **0.024** | mg/kg | 0.0049 | 0.00033 | 1 | | 02/28/19 20:25 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 20:25 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 02/28/19 20:25 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 103 | %. | 72-136 | | 1 | | 02/28/19 20:25 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 99 | %. | 57-130 | | 1 | | 02/28/19 20:25 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.8** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:18 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-20 SL (13-14)** **Lab ID: 50218035012** Collected: 02/26/19 14:40 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0051 | 0.00031 | 1 | | 02/28/19 21:00 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0051 | 0.00033 | 1 | | 02/28/19 21:00 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0051 | 0.00027 | 1 | | 02/28/19 21:00 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0051 | 0.00035 | 1 | | 02/28/19 21:00 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0072 | 1 | | 02/28/19 21:00 | 75-09-2 | M5 |
| Tetrachloroethene | **0.21** | mg/kg | 0.0051 | 0.00031 | 1 | | 02/28/19 21:00 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.020** | mg/kg | 0.0051 | 0.00034 | 1 | | 02/28/19 21:00 | 71-55-6 | M5 |
| Trichloroethene | **0.16** | mg/kg | 0.0051 | 0.00033 | 1 | | 02/28/19 21:00 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0051 | 0.0051 | 1 | | 02/28/19 21:00 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 02/28/19 21:00 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 105 | %. | 72-136 | | 1 | | 02/28/19 21:00 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 02/28/19 21:00 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **15.0** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:18 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-21 SL (8.7-9.7)** **Lab ID: 50218035013** Collected: 02/26/19 15:15 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0089 | 0.00055 | 1 | | 02/28/19 21:34 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0089 | 0.00059 | 1 | | 02/28/19 21:34 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0089 | 0.00048 | 1 | | 02/28/19 21:34 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0089 | 0.00062 | 1 | | 02/28/19 21:34 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.035 | 0.013 | 1 | | 02/28/19 21:34 | 75-09-2 | M5 |
| Tetrachloroethene | **0.040** | mg/kg | 0.0089 | 0.00055 | 1 | | 02/28/19 21:34 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0089 | 0.00060 | 1 | | 02/28/19 21:34 | 71-55-6 | M5 |
| Trichloroethene | **0.021** | mg/kg | 0.0089 | 0.00059 | 1 | | 02/28/19 21:34 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0089 | 0.0089 | 1 | | 02/28/19 21:34 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 02/28/19 21:34 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 101 | %. | 72-136 | | 1 | | 02/28/19 21:34 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 100 | %. | 57-130 | | 1 | | 02/28/19 21:34 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **16.2** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:18 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-21 SL (10.7-11.7)** **Lab ID: 50218035014** Collected: 02/26/19 15:20 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0053 | 0.00033 | 1 | | 02/28/19 22:08 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0053 | 0.00035 | 1 | | 02/28/19 22:08 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00028 | 1 | | 02/28/19 22:08 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00037 | 1 | | 02/28/19 22:08 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.0075 | 1 | | 02/28/19 22:08 | 75-09-2 | M5 |
| Tetrachloroethene | **0.13** | mg/kg | 0.0053 | 0.00033 | 1 | | 02/28/19 22:08 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0034J** | mg/kg | 0.0053 | 0.00036 | 1 | | 02/28/19 22:08 | 71-55-6 | M5 |
| Trichloroethene | **0.036** | mg/kg | 0.0053 | 0.00035 | 1 | | 02/28/19 22:08 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 02/28/19 22:08 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 103 | %. | 80-127 | | 1 | | 02/28/19 22:08 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 105 | %. | 72-136 | | 1 | | 02/28/19 22:08 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 02/28/19 22:08 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.7** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:18 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-21 SL (12.5-13.5)** **Lab ID: 50218035015** Collected: 02/26/19 15:35 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | **0.050** | mg/kg | 0.0049 | 0.00030 | 1 | | 02/28/19 22:43 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00032 | 1 | | 02/28/19 22:43 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | **0.0011J** | mg/kg | 0.0049 | 0.00026 | 1 | | 02/28/19 22:43 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00034 | 1 | | 02/28/19 22:43 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0070 | 1 | | 02/28/19 22:43 | 75-09-2 | M5 |
| Tetrachloroethene | **0.0051** | mg/kg | 0.0049 | 0.00030 | 1 | | 02/28/19 22:43 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.11** | mg/kg | 0.0049 | 0.00033 | 1 | | 02/28/19 22:43 | 71-55-6 | M5 |
| Trichloroethene | **1.4** | mg/kg | 0.24 | 0.24 | 50 | | 03/01/19 13:34 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 22:43 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 02/28/19 22:43 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 105 | %. | 72-136 | | 1 | | 02/28/19 22:43 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 101 | %. | 57-130 | | 1 | | 02/28/19 22:43 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **12.4** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:18 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-21 SL (14-15)** **Lab ID: 50218035016** Collected: 02/26/19 15:40 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0046 | 0.00012 | 1 | | 02/28/19 16:04 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0046 | 0.00019 | 1 | | 02/28/19 16:04 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0046 | 0.00025 | 1 | | 02/28/19 16:04 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0046 | 0.00026 | 1 | | 02/28/19 16:04 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.019 | 1 | | 02/28/19 16:04 | 75-09-2 | |
| Tetrachloroethene | **0.13** | mg/kg | 0.0046 | 0.00021 | 1 | | 02/28/19 16:04 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.010** | mg/kg | 0.0046 | 0.00021 | 1 | | 02/28/19 16:04 | 71-55-6 | |
| Trichloroethene | **0.098** | mg/kg | 0.0046 | 0.00035 | 1 | | 02/28/19 16:04 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0046 | 0.00019 | 1 | | 02/28/19 16:04 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 101 | %. | 80-127 | | 1 | | 02/28/19 16:04 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | %. | 72-136 | | 1 | | 02/28/19 16:04 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 97 | %. | 57-130 | | 1 | | 02/28/19 16:04 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **12.4** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:18 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-22 SL (8.1-9.1)** **Lab ID: 50218035017** Collected: 02/26/19 16:30 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0055 | 0.00014 | 1 | | 02/28/19 16:37 | 75-34-3 | R1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0055 | 0.00022 | 1 | | 02/28/19 16:37 | 107-06-2 | R1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0055 | 0.00030 | 1 | | 02/28/19 16:37 | 156-59-2 | R1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0055 | 0.00031 | 1 | | 02/28/19 16:37 | 156-60-5 | R1 |
| Methylene Chloride | ND | mg/kg | 0.022 | 0.022 | 1 | | 02/28/19 16:37 | 75-09-2 | R1 |
| Tetrachloroethene | **0.036** J | mg/kg | 0.0055 | 0.00025 | 1 | | 02/28/19 16:37 | 127-18-4 | R1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0055 | 0.00025 | 1 | | 02/28/19 16:37 | 71-55-6 | R1 |
| Trichloroethene | **0.024** J | mg/kg | 0.0055 | 0.00042 | 1 | | 02/28/19 16:37 | 79-01-6 | R1 |
| Vinyl chloride | ND | mg/kg | 0.0055 | 0.00022 | 1 | | 02/28/19 16:37 | 75-01-4 | R1 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 103 | %. | 80-127 | | 1 | | 02/28/19 16:37 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | %. | 72-136 | | 1 | | 02/28/19 16:37 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 93 | %. | 57-130 | | 1 | | 02/28/19 16:37 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.5** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:19 | | |



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## ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-22 SL (10.1-11.1)** **Lab ID: 50218035018** Collected: 02/26/19 16:25 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.00013 | 1 | | 02/28/19 18:17 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00020 | 1 | | 02/28/19 18:17 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00027 | 1 | | 02/28/19 18:17 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00028 | 1 | | 02/28/19 18:17 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.020 | 1 | | 02/28/19 18:17 | 75-09-2 | |
| Tetrachloroethene | **0.048** | mg/kg | 0.0050 | 0.00023 | 1 | | 02/28/19 18:17 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.00023 | 1 | | 02/28/19 18:17 | 71-55-6 | |
| Trichloroethene | **0.033** | mg/kg | 0.0050 | 0.00038 | 1 | | 02/28/19 18:17 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.00020 | 1 | | 02/28/19 18:17 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 02/28/19 18:17 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | %. | 72-136 | | 1 | | 02/28/19 18:17 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 97 | %. | 57-130 | | 1 | | 02/28/19 18:17 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.9** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:19 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-22 SL (12-13)** **Lab ID: 50218035019** Collected: 02/26/19 16:20 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0048 | 0.00012 | 1 | | 02/28/19 18:51 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0048 | 0.00019 | 1 | | 02/28/19 18:51 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0048 | 0.00026 | 1 | | 02/28/19 18:51 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0048 | 0.00027 | 1 | | 02/28/19 18:51 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.019 | 1 | | 02/28/19 18:51 | 75-09-2 | |
| Tetrachloroethene | **0.049** | mg/kg | 0.0048 | 0.00022 | 1 | | 02/28/19 18:51 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0048 | 0.00022 | 1 | | 02/28/19 18:51 | 71-55-6 | |
| Trichloroethene | **0.034** | mg/kg | 0.0048 | 0.00036 | 1 | | 02/28/19 18:51 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0048 | 0.00019 | 1 | | 02/28/19 18:51 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 110 | %. | 80-127 | | 1 | | 02/28/19 18:51 | 1868-53-7 | |
| Toluene-d8 (S) | 94 | %. | 72-136 | | 1 | | 02/28/19 18:51 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 95 | %. | 57-130 | | 1 | | 02/28/19 18:51 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.5** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:19 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-23 SL (7.2-8.2)** **Lab ID: 50218035020** Collected: 02/27/19 08:50 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0052 | 0.00013 | 1 | | 02/28/19 19:25 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0052 | 0.00021 | 1 | | 02/28/19 19:25 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0052 | 0.00028 | 1 | | 02/28/19 19:25 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0052 | 0.00029 | 1 | | 02/28/19 19:25 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.021 | 1 | | 02/28/19 19:25 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0052 | 0.00024 | 1 | | 02/28/19 19:25 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0052 | 0.00024 | 1 | | 02/28/19 19:25 | 71-55-6 | |
| Trichloroethene | **0.0045J** | mg/kg | 0.0052 | 0.00039 | 1 | | 02/28/19 19:25 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0052 | 0.00021 | 1 | | 02/28/19 19:25 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 110 | %. | 80-127 | | 1 | | 02/28/19 19:25 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | %. | 72-136 | | 1 | | 02/28/19 19:25 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 93 | %. | 57-130 | | 1 | | 02/28/19 19:25 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.6** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:19 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-23 SL (9.2-10.2)** **Lab ID: 50218035021** Collected: 02/27/19 08:55 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0064 | 0.00017 | 1 | | 02/28/19 19:58 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0064 | 0.00026 | 1 | | 02/28/19 19:58 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0064 | 0.00035 | 1 | | 02/28/19 19:58 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0064 | 0.00036 | 1 | | 02/28/19 19:58 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.026 | 0.026 | 1 | | 02/28/19 19:58 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0064 | 0.00030 | 1 | | 02/28/19 19:58 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0064 | 0.00030 | 1 | | 02/28/19 19:58 | 71-55-6 | |
| Trichloroethene | **0.0014J** | mg/kg | 0.0064 | 0.00049 | 1 | | 02/28/19 19:58 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0064 | 0.00026 | 1 | | 02/28/19 19:58 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | %. | 80-127 | | 1 | | 02/28/19 19:58 | 1868-53-7 | |
| Toluene-d8 (S) | 94 | %. | 72-136 | | 1 | | 02/28/19 19:58 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 95 | %. | 57-130 | | 1 | | 02/28/19 19:58 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **15.0** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:19 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-23 SL (11-12)** **Lab ID: 50218035022** Collected: 02/27/19 09:00 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.00013 | 1 | | 02/28/19 20:31 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00020 | 1 | | 02/28/19 20:31 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00027 | 1 | | 02/28/19 20:31 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00028 | 1 | | 02/28/19 20:31 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.020 | 1 | | 02/28/19 20:31 | 75-09-2 | |
| Tetrachloroethene | ND UJ | mg/kg | 0.0050 | 0.00023 | 1 | | 02/28/19 20:31 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.00023 | 1 | | 02/28/19 20:31 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.00038 | 1 | | 02/28/19 20:31 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.00020 | 1 | | 02/28/19 20:31 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 113 | %. | 80-127 | | 1 | | 02/28/19 20:31 | 1868-53-7 | |
| Toluene-d8 (S) | 120 | %. | 72-136 | | 1 | | 02/28/19 20:31 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 74 | %. | 57-130 | | 1 | | 02/28/19 20:31 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **7.0** | % | 0.10 | 0.10 | 1 | | 02/27/19 17:19 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-23 SL (12.75-13.75)** **Lab ID: 50218035023** Collected: 02/27/19 09:05 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0049 | 0.00013 | 1 | | 02/28/19 21:05 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00020 | 1 | | 02/28/19 21:05 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00026 | 1 | | 02/28/19 21:05 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00027 | 1 | | 02/28/19 21:05 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.020 | 1 | | 02/28/19 21:05 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0049 | 0.00022 | 1 | | 02/28/19 21:05 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0049 | 0.00022 | 1 | | 02/28/19 21:05 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0049 | 0.00037 | 1 | | 02/28/19 21:05 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0049 | 0.00020 | 1 | | 02/28/19 21:05 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 02/28/19 21:05 | 1868-53-7 | |
| Toluene-d8 (S) | 106 | %. | 72-136 | | 1 | | 02/28/19 21:05 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 83 | %. | 57-130 | | 1 | | 02/28/19 21:05 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **14.7** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:13 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: EB-3 WT** **Lab ID: 50218035024** Collected: 02/27/19 10:45 Received: 02/27/19 15:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260/5030 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.47 | 1 | | 02/28/19 14:01 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | 0.27 | 1 | | 02/28/19 14:01 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.48 | 1 | | 02/28/19 14:01 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.76 | 1 | | 02/28/19 14:01 | 156-60-5 | L1,M5 |
| Methylene Chloride | ND | ug/L | 5.0 | 5.0 | 1 | | 02/28/19 14:01 | 75-09-2 | M5 |
| Tetrachloroethene | ND | ug/L | 5.0 | 0.93 | 1 | | 02/28/19 14:01 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | 0.49 | 1 | | 02/28/19 14:01 | 71-55-6 | M5 |
| Trichloroethene | ND | ug/L | 5.0 | 0.64 | 1 | | 02/28/19 14:01 | 79-01-6 | M5 |
| Vinyl chloride | ND | ug/L | 2.0 | 0.97 | 1 | | 02/28/19 14:01 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 98 | %. | 89-116 | | 1 | | 02/28/19 14:01 | 1868-53-7 | M5 |
| 4-Bromofluorobenzene (S) | 101 | %. | 85-111 | | 1 | | 02/28/19 14:01 | 460-00-4 | M5 |
| Toluene-d8 (S) | 95 | %. | 87-110 | | 1 | | 02/28/19 14:01 | 2037-26-5 | M5 |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-24 SL (5.5-6.5)** **Lab ID: 50218035025** Collected: 02/27/19 09:15 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0042 | 0.00011 | 1 | | 02/28/19 21:39 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0042 | 0.00017 | 1 | | 02/28/19 21:39 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0042 | 0.00022 | 1 | | 02/28/19 21:39 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0042 | 0.00023 | 1 | | 02/28/19 21:39 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.017 | 0.017 | 1 | | 02/28/19 21:39 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0042 | 0.00019 | 1 | | 02/28/19 21:39 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0042 | 0.00019 | 1 | | 02/28/19 21:39 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0042 | 0.00032 | 1 | | 02/28/19 21:39 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0042 | 0.00017 | 1 | | 02/28/19 21:39 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 113 | %. | 80-127 | | 1 | | 02/28/19 21:39 | 1868-53-7 | |
| Toluene-d8 (S) | 90 | %. | 72-136 | | 1 | | 02/28/19 21:39 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 02/28/19 21:39 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **19.2** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:14 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-24 SL (7.9-8.9)** **Lab ID: 50218035026** Collected: 02/27/19 09:20 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0048 | 0.00013 | 1 | | 03/01/19 09:24 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0048 | 0.00019 | 1 | | 03/01/19 09:24 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0048 | 0.00026 | 1 | | 03/01/19 09:24 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0048 | 0.00027 | 1 | | 03/01/19 09:24 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.019 | 1 | | 03/01/19 09:24 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0048 | 0.00022 | 1 | | 03/01/19 09:24 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0048 | 0.00022 | 1 | | 03/01/19 09:24 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0048 | 0.00037 | 1 | | 03/01/19 09:24 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0048 | 0.00019 | 1 | | 03/01/19 09:24 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 03/01/19 09:24 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | %. | 72-136 | | 1 | | 03/01/19 09:24 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 91 | %. | 57-130 | | 1 | | 03/01/19 09:24 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.0** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:14 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-24 SL (9.25-10.25)** **Lab ID: 50218035027** Collected: 02/27/19 09:25 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | **0.054** | mg/kg | 0.0055 | 0.0055 | 1 | | 03/01/19 13:03 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0055 | 0.00032 | 1 | | 03/01/19 13:03 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0055 | 0.00030 | 1 | | 03/01/19 13:03 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0055 | 0.0055 | 1 | | 03/01/19 13:03 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.022 | 0.022 | 1 | | 03/01/19 13:03 | 75-09-2 | M5 |
| Tetrachloroethene | ND | mg/kg | 0.0055 | 0.0055 | 1 | | 03/01/19 13:03 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.17** | mg/kg | 0.0055 | 0.0055 | 1 | | 03/01/19 13:03 | 71-55-6 | M5 |
| Trichloroethene | **0.0011J** | mg/kg | 0.0055 | 0.00036 | 1 | | 03/01/19 13:03 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0055 | 0.0055 | 1 | | 03/01/19 13:03 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 107 | %. | 80-127 | | 1 | | 03/01/19 13:03 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 95 | %. | 72-136 | | 1 | | 03/01/19 13:03 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 93 | %. | 57-130 | | 1 | | 03/01/19 13:03 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.5** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:14 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-25 SL (5.4-6.4)** **Lab ID: 50218035028** Collected: 02/27/19 10:00 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND UJ | mg/kg | 0.0053 | 0.00014 | 1 | | 02/28/19 23:19 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0053 | 0.00021 | 1 | | 02/28/19 23:19 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00028 | 1 | | 02/28/19 23:19 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00029 | 1 | | 02/28/19 23:19 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.021 | 1 | | 02/28/19 23:19 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0053 | 0.00024 | 1 | | 02/28/19 23:19 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0084** J | mg/kg | 0.0053 | 0.00024 | 1 | | 02/28/19 23:19 | 71-55-6 | |
| Trichloroethene | ND UJ | mg/kg | 0.0053 | 0.00040 | 1 | | 02/28/19 23:19 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0053 | 0.00021 | 1 | | 02/28/19 23:19 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 117 | %. | 80-127 | | 1 | | 02/28/19 23:19 | 1868-53-7 | |
| Toluene-d8 (S) | 90 | %. | 72-136 | | 1 | | 02/28/19 23:19 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 101 | %. | 57-130 | | 1 | | 02/28/19 23:19 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **12.1** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:14 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-25 SL (7.6-8.6)** **Lab ID: 50218035029** Collected: 02/27/19 10:03 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | **0.027** | mg/kg | 0.0035 | 0.000091 | 1 | | 02/28/19 23:53 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0035 | 0.00014 | 1 | | 02/28/19 23:53 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0035 | 0.00019 | 1 | | 02/28/19 23:53 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0035 | 0.00020 | 1 | | 02/28/19 23:53 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.014 | 0.014 | 1 | | 02/28/19 23:53 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0035 | 0.00016 | 1 | | 02/28/19 23:53 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.19** | mg/kg | 0.0035 | 0.00016 | 1 | | 02/28/19 23:53 | 71-55-6 | |
| Trichloroethene | **0.0031J** | mg/kg | 0.0035 | 0.00027 | 1 | | 02/28/19 23:53 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0035 | 0.00014 | 1 | | 02/28/19 23:53 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 02/28/19 23:53 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | %. | 72-136 | | 1 | | 02/28/19 23:53 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 91 | %. | 57-130 | | 1 | | 02/28/19 23:53 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.8** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:14 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-25 SL (6.5-7.5)** **Lab ID: 50218035030** Collected: 02/27/19 10:05 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND UJ | mg/kg | 0.0045 | 0.00012 | 1 | | 03/01/19 00:27 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0045 | 0.00018 | 1 | | 03/01/19 00:27 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0045 | 0.00025 | 1 | | 03/01/19 00:27 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0045 | 0.00025 | 1 | | 03/01/19 00:27 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.018 | 0.018 | 1 | | 03/01/19 00:27 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0045 | 0.00021 | 1 | | 03/01/19 00:27 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0045 | 0.00021 | 1 | | 03/01/19 00:27 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0045 | 0.00034 | 1 | | 03/01/19 00:27 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0045 | 0.00018 | 1 | | 03/01/19 00:27 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 121 | %. | 80-127 | | 1 | | 03/01/19 00:27 | 1868-53-7 | |
| Toluene-d8 (S) | 89 | %. | 72-136 | | 1 | | 03/01/19 00:27 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 03/01/19 00:27 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **10.9** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:14 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-26 SL (5.4-6.4)** **Lab ID: 50218035031** Collected: 02/27/19 10:10 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0041 | 0.00011 | 1 | | 03/01/19 01:00 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0041 | 0.00016 | 1 | | 03/01/19 01:00 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0041 | 0.00022 | 1 | | 03/01/19 01:00 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0041 | 0.00023 | 1 | | 03/01/19 01:00 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.016 | 0.016 | 1 | | 03/01/19 01:00 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0041 | 0.00019 | 1 | | 03/01/19 01:00 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0041 | 0.00019 | 1 | | 03/01/19 01:00 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0041 | 0.00031 | 1 | | 03/01/19 01:00 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0041 | 0.00016 | 1 | | 03/01/19 01:00 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 97 | %. | 80-127 | | 1 | | 03/01/19 01:00 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | %. | 72-136 | | 1 | | 03/01/19 01:00 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 03/01/19 01:00 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **10.5** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:14 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-26 SL (7.6-8.6)** **Lab ID: 50218035032** Collected: 02/27/19 10:12 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | **0.19** | mg/kg | 0.0042 | 0.00011 | 1 | | 03/01/19 01:34 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0042 | 0.00017 | 1 | | 03/01/19 01:34 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0042 | 0.00023 | 1 | | 03/01/19 01:34 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0042 | 0.00024 | 1 | | 03/01/19 01:34 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.017 | 0.017 | 1 | | 03/01/19 01:34 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0042 | 0.00019 | 1 | | 03/01/19 01:34 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.077** | mg/kg | 0.0042 | 0.00019 | 1 | | 03/01/19 01:34 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0042 | 0.00032 | 1 | | 03/01/19 01:34 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0042 | 0.00017 | 1 | | 03/01/19 01:34 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 117 | %. | 80-127 | | 1 | | 03/01/19 01:34 | 1868-53-7 | |
| Toluene-d8 (S) | 116 | %. | 72-136 | | 1 | | 03/01/19 01:34 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 77 | %. | 57-130 | | 1 | | 03/01/19 01:34 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **10.2** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:14 | | |



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## ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-26 SL (6.5-7.5)** **Lab ID: 50218035033** Collected: 02/27/19 10:15 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0045 | 0.0045 | 1 | | 02/28/19 16:20 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0045 | 0.00026 | 1 | | 02/28/19 16:20 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0045 | 0.00024 | 1 | | 02/28/19 16:20 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0045 | 0.0045 | 1 | | 02/28/19 16:20 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.018 | 0.018 | 1 | | 02/28/19 16:20 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0045 | 0.0045 | 1 | | 02/28/19 16:20 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0045 | 0.0045 | 1 | | 02/28/19 16:20 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0045 | 0.00029 | 1 | | 02/28/19 16:20 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0045 | 0.0045 | 1 | | 02/28/19 16:20 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | %. | 80-127 | | 1 | | 02/28/19 16:20 | 1868-53-7 | |
| Toluene-d8 (S) | 103 | %. | 72-136 | | 1 | | 02/28/19 16:20 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 86 | %. | 57-130 | | 1 | | 02/28/19 16:20 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.9** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:14 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-27 SL (5.3-6.3)** **Lab ID: 50218035034** Collected: 02/27/19 10:25 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0084 | 0.0084 | 1 | | 02/28/19 16:53 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0084 | 0.00049 | 1 | | 02/28/19 16:53 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0084 | 0.00045 | 1 | | 02/28/19 16:53 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0084 | 0.0084 | 1 | | 02/28/19 16:53 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.034 | 0.034 | 1 | | 02/28/19 16:53 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0084 | 0.0084 | 1 | | 02/28/19 16:53 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0084 | 0.0084 | 1 | | 02/28/19 16:53 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0084 | 0.00056 | 1 | | 02/28/19 16:53 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0084 | 0.0084 | 1 | | 02/28/19 16:53 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 115 | %. | 80-127 | | 1 | | 02/28/19 16:53 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | %. | 72-136 | | 1 | | 02/28/19 16:53 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 91 | %. | 57-130 | | 1 | | 02/28/19 16:53 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **19.6** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:14 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-27 SL (7.5-8.5)** **Lab ID: 50218035035** Collected: 02/27/19 10:27 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | **0.61** | mg/kg | 0.11 | 0.0028 | 25 | | 03/01/19 12:12 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0039 | 0.00023 | 1 | | 02/28/19 17:27 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0039 | 0.00021 | 1 | | 02/28/19 17:27 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0039 | 0.0039 | 1 | | 02/28/19 17:27 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.016 | 0.016 | 1 | | 02/28/19 17:27 | 75-09-2 | |
| Tetrachloroethene | ND UJ | mg/kg | 0.0039 | 0.0039 | 1 | | 02/28/19 17:27 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.018** | mg/kg | 0.0039 | 0.0039 | 1 | | 02/28/19 17:27 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0039 | 0.00026 | 1 | | 02/28/19 17:27 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0039 | 0.0039 | 1 | | 02/28/19 17:27 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 112 | %. | 80-127 | | 1 | | 02/28/19 17:27 | 1868-53-7 | |
| Toluene-d8 (S) | 122 | %. | 72-136 | | 1 | | 02/28/19 17:27 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 79 | %. | 57-130 | | 1 | | 02/28/19 17:27 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.4** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:15 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-28 SL (5.3-6.3)** **Lab ID: 50218035036** Collected: 02/27/19 10:35 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 18:00 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00029 | 1 | | 02/28/19 18:00 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00027 | 1 | | 02/28/19 18:00 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 18:00 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.020 | 1 | | 02/28/19 18:00 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 18:00 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 18:00 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0049 | 0.00033 | 1 | | 02/28/19 18:00 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 18:00 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | %. | 80-127 | | 1 | | 02/28/19 18:00 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | %. | 72-136 | | 1 | | 02/28/19 18:00 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 94 | %. | 57-130 | | 1 | | 02/28/19 18:00 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **10.8** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:15 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-28 SL (7.5-8.5)** **Lab ID: 50218035037** Collected: 02/27/19 10:37 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0038 | 0.0038 | 1 | | 02/28/19 18:34 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0038 | 0.00022 | 1 | | 02/28/19 18:34 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0038 | 0.00021 | 1 | | 02/28/19 18:34 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0038 | 0.0038 | 1 | | 02/28/19 18:34 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.015 | 0.015 | 1 | | 02/28/19 18:34 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0038 | 0.0038 | 1 | | 02/28/19 18:34 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.11** | mg/kg | 0.0038 | 0.0038 | 1 | | 02/28/19 18:34 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0038 | 0.00025 | 1 | | 02/28/19 18:34 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0038 | 0.0038 | 1 | | 02/28/19 18:34 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 108 | %. | 80-127 | | 1 | | 02/28/19 18:34 | 1868-53-7 | |
| Toluene-d8 (S) | 107 | %. | 72-136 | | 1 | | 02/28/19 18:34 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 82 | %. | 57-130 | | 1 | | 02/28/19 18:34 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.3** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:15 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-29 SL (4.6-5.6)** **Lab ID: 50218035038** Collected: 02/27/19 11:10 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0083 | 0.0083 | 1 | | 02/28/19 19:08 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0083 | 0.00048 | 1 | | 02/28/19 19:08 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0083 | 0.00045 | 1 | | 02/28/19 19:08 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0083 | 0.0083 | 1 | | 02/28/19 19:08 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.033 | 0.033 | 1 | | 02/28/19 19:08 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0083 | 0.0083 | 1 | | 02/28/19 19:08 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0083 | 0.0083 | 1 | | 02/28/19 19:08 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0083 | 0.00055 | 1 | | 02/28/19 19:08 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0083 | 0.0083 | 1 | | 02/28/19 19:08 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 101 | %. | 80-127 | | 1 | | 02/28/19 19:08 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | %. | 72-136 | | 1 | | 02/28/19 19:08 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 92 | %. | 57-130 | | 1 | | 02/28/19 19:08 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **25.8** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:15 | | |



VC 03/29/19

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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-29 SL (6.8-7.8)** **Lab ID: 50218035039** Collected: 02/27/19 11:15 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0036 | 0.000094 | 1 | | 03/01/19 09:57 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0036 | 0.00014 | 1 | | 03/01/19 09:57 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0036 | 0.00019 | 1 | | 03/01/19 09:57 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0036 | 0.00020 | 1 | | 03/01/19 09:57 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.014 | 0.014 | 1 | | 03/01/19 09:57 | 75-09-2 | |
| Tetrachloroethene | ND UJ | mg/kg | 0.0036 | 0.00017 | 1 | | 03/01/19 09:57 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0036 | 0.00017 | 1 | | 03/01/19 09:57 | 71-55-6 | |
| Trichloroethene | **0.0012J** | mg/kg | 0.0036 | 0.00027 | 1 | | 03/01/19 09:57 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0036 | 0.00014 | 1 | | 03/01/19 09:57 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 117 | %. | 80-127 | | 1 | | 03/01/19 09:57 | 1868-53-7 | |
| Toluene-d8 (S) | 122 | %. | 72-136 | | 1 | | 03/01/19 09:57 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 73 | %. | 57-130 | | 1 | | 03/01/19 09:57 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **6.6** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:15 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-30 SL (5.3-6.3)** **Lab ID: 50218035040** Collected: 02/27/19 11:30 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 21:22 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00029 | 1 | | 02/28/19 21:22 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00027 | 1 | | 02/28/19 21:22 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 21:22 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.020 | 1 | | 02/28/19 21:22 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 21:22 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 21:22 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0049 | 0.00033 | 1 | | 02/28/19 21:22 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0049 | 0.0049 | 1 | | 02/28/19 21:22 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 109 | %. | 80-127 | | 1 | | 02/28/19 21:22 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | %. | 72-136 | | 1 | | 02/28/19 21:22 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 92 | %. | 57-130 | | 1 | | 02/28/19 21:22 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **13.6** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:15 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-30 SL (7.5-8.5)** **Lab ID: 50218035041** Collected: 02/27/19 11:35 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0043 | 0.0043 | 1 | | 02/28/19 21:56 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0043 | 0.00025 | 1 | | 02/28/19 21:56 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 0.00023 | 1 | | 02/28/19 21:56 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 0.0043 | 1 | | 02/28/19 21:56 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.017 | 0.017 | 1 | | 02/28/19 21:56 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0043 | 0.0043 | 1 | | 02/28/19 21:56 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0043 | 0.0043 | 1 | | 02/28/19 21:56 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0043 | 0.00028 | 1 | | 02/28/19 21:56 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0043 | 0.0043 | 1 | | 02/28/19 21:56 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 107 | %. | 80-127 | | 1 | | 02/28/19 21:56 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | %. | 72-136 | | 1 | | 02/28/19 21:56 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 94 | %. | 57-130 | | 1 | | 02/28/19 21:56 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.8** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:15 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-31 SL (5.4-6.4)** **Lab ID: 50218035042** Collected: 02/27/19 11:45 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0054 | 0.0054 | 1 | | 02/28/19 22:29 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0054 | 0.00031 | 1 | | 02/28/19 22:29 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0054 | 0.00029 | 1 | | 02/28/19 22:29 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0054 | 0.0054 | 1 | | 02/28/19 22:29 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.021 | 1 | | 02/28/19 22:29 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0054 | 0.0054 | 1 | | 02/28/19 22:29 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0054 | 0.0054 | 1 | | 02/28/19 22:29 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0054 | 0.00035 | 1 | | 02/28/19 22:29 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0054 | 0.0054 | 1 | | 02/28/19 22:29 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 02/28/19 22:29 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | %. | 72-136 | | 1 | | 02/28/19 22:29 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 02/28/19 22:29 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **5.6** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:16 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-31 SL (7.6-8.6)** **Lab ID: 50218035043** Collected: 02/27/19 11:47 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 02/28/19 23:03 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0053 | 0.00031 | 1 | | 02/28/19 23:03 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00028 | 1 | | 02/28/19 23:03 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 02/28/19 23:03 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.021 | 1 | | 02/28/19 23:03 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 02/28/19 23:03 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 02/28/19 23:03 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0053 | 0.00035 | 1 | | 02/28/19 23:03 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 02/28/19 23:03 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 103 | %. | 80-127 | | 1 | | 02/28/19 23:03 | 1868-53-7 | |
| Toluene-d8 (S) | 91 | %. | 72-136 | | 1 | | 02/28/19 23:03 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 02/28/19 23:03 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.1** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:16 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-31 SL (8.75-9.75)** **Lab ID: 50218035044** Collected: 02/27/19 11:50 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | **2.1** | mg/kg | 0.13 | 0.0033 | 25 | | 03/01/19 12:46 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0046 | 0.00027 | 1 | | 02/28/19 23:36 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0046 | 0.00025 | 1 | | 02/28/19 23:36 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0046 | 0.0046 | 1 | | 02/28/19 23:36 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.018 | 0.018 | 1 | | 02/28/19 23:36 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0046 | 0.0046 | 1 | | 02/28/19 23:36 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0046 | 0.0046 | 1 | | 02/28/19 23:36 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0046 | 0.00030 | 1 | | 02/28/19 23:36 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0046 | 0.0046 | 1 | | 02/28/19 23:36 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 108 | %. | 80-127 | | 1 | | 02/28/19 23:36 | 1868-53-7 | |
| Toluene-d8 (S) | 108 | %. | 72-136 | | 1 | | 02/28/19 23:36 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 83 | %. | 57-130 | | 1 | | 02/28/19 23:36 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **10.9** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:46 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-32 SL (5.8-6.8)** **Lab ID: 50218035045** Collected: 02/27/19 12:00 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0055 | 0.0055 | 1 | | 03/01/19 00:10 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0055 | 0.00032 | 1 | | 03/01/19 00:10 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0055 | 0.00030 | 1 | | 03/01/19 00:10 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0055 | 0.0055 | 1 | | 03/01/19 00:10 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.022 | 0.022 | 1 | | 03/01/19 00:10 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0055 | 0.0055 | 1 | | 03/01/19 00:10 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0055 | 0.0055 | 1 | | 03/01/19 00:10 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0055 | 0.00036 | 1 | | 03/01/19 00:10 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0055 | 0.0055 | 1 | | 03/01/19 00:10 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 03/01/19 00:10 | 1868-53-7 | |
| Toluene-d8 (S) | 94 | %. | 72-136 | | 1 | | 03/01/19 00:10 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 03/01/19 00:10 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **6.6** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:46 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-32 SL (7.9-8.9)** **Lab ID: 50218035046** Collected: 02/27/19 12:03 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0051 | 0.0051 | 1 | | 03/01/19 00:44 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0051 | 0.00030 | 1 | | 03/01/19 00:44 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0051 | 0.00028 | 1 | | 03/01/19 00:44 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0051 | 0.0051 | 1 | | 03/01/19 00:44 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.021 | 1 | | 03/01/19 00:44 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0051 | 0.0051 | 1 | | 03/01/19 00:44 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0051 | 0.0051 | 1 | | 03/01/19 00:44 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0051 | 0.00034 | 1 | | 03/01/19 00:44 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0051 | 0.0051 | 1 | | 03/01/19 00:44 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | %. | 80-127 | | 1 | | 03/01/19 00:44 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | %. | 72-136 | | 1 | | 03/01/19 00:44 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 91 | %. | 57-130 | | 1 | | 03/01/19 00:44 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **13.1** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:46 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-32 SL (9-10)** **Lab ID: 50218035047** Collected: 02/27/19 12:05 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.0050 | 1 | | 03/01/19 01:17 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00029 | 1 | | 03/01/19 01:17 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00027 | 1 | | 03/01/19 01:17 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.0050 | 1 | | 03/01/19 01:17 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.020 | 1 | | 03/01/19 01:17 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0050 | 0.0050 | 1 | | 03/01/19 01:17 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.0050 | 1 | | 03/01/19 01:17 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0050 | 0.00033 | 1 | | 03/01/19 01:17 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.0050 | 1 | | 03/01/19 01:17 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 03/01/19 01:17 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | %. | 72-136 | | 1 | | 03/01/19 01:17 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 03/01/19 01:17 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.0** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:47 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-33 SL (6.7-7.7)** **Lab ID: 50218035048** Collected: 02/27/19 12:45 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 03/01/19 01:51 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0053 | 0.00031 | 1 | | 03/01/19 01:51 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00029 | 1 | | 03/01/19 01:51 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 03/01/19 01:51 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.021 | 1 | | 03/01/19 01:51 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 03/01/19 01:51 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 03/01/19 01:51 | 71-55-6 | |
| Trichloroethene | **0.020** | mg/kg | 0.0053 | 0.00035 | 1 | | 03/01/19 01:51 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0053 | 0.0053 | 1 | | 03/01/19 01:51 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 107 | %. | 80-127 | | 1 | | 03/01/19 01:51 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | %. | 72-136 | | 1 | | 03/01/19 01:51 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 94 | %. | 57-130 | | 1 | | 03/01/19 01:51 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **12.1** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:47 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-33 SL (8.7-9.7)** **Lab ID: 50218035049** Collected: 02/27/19 12:50 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0049 | 0.00050 | 1 | | 02/28/19 14:57 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00075 | 1 | | 02/28/19 14:57 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00065 | 1 | | 02/28/19 14:57 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00074 | 1 | | 02/28/19 14:57 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.020 | 1 | | 02/28/19 14:57 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0049 | 0.00068 | 1 | | 02/28/19 14:57 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0014J** | mg/kg | 0.0049 | 0.00064 | 1 | | 02/28/19 14:57 | 71-55-6 | |
| Trichloroethene | **0.010** | mg/kg | 0.0049 | 0.00057 | 1 | | 02/28/19 14:57 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0049 | 0.00041 | 1 | | 02/28/19 14:57 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 101 | %. | 80-127 | | 1 | | 02/28/19 14:57 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | %. | 72-136 | | 1 | | 02/28/19 14:57 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 02/28/19 14:57 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **10.8** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:47 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-34 SL (7.7-8.7)** **Lab ID: 50218035050** Collected: 02/27/19 13:05 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0052 | 0.00053 | 1 | | 02/28/19 15:36 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0052 | 0.00080 | 1 | | 02/28/19 15:36 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0052 | 0.00069 | 1 | | 02/28/19 15:36 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0052 | 0.00079 | 1 | | 02/28/19 15:36 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.021 | 1 | | 02/28/19 15:36 | 75-09-2 | |
| Tetrachloroethene | **0.0041J** | mg/kg | 0.0052 | 0.00072 | 1 | | 02/28/19 15:36 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0010J** | mg/kg | 0.0052 | 0.00068 | 1 | | 02/28/19 15:36 | 71-55-6 | |
| Trichloroethene | **0.011** | mg/kg | 0.0052 | 0.00061 | 1 | | 02/28/19 15:36 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0052 | 0.00044 | 1 | | 02/28/19 15:36 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 98 | %. | 80-127 | | 1 | | 02/28/19 15:36 | 1868-53-7 | |
| Toluene-d8 (S) | 94 | %. | 72-136 | | 1 | | 02/28/19 15:36 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 95 | %. | 57-130 | | 1 | | 02/28/19 15:36 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **16.8** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:47 | | |



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## ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-34 SL (9.7-10.7)** **Lab ID: 50218035051** Collected: 02/27/19 13:10 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.00051 | 1 | | 02/28/19 16:14 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00076 | 1 | | 02/28/19 16:14 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00066 | 1 | | 02/28/19 16:14 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00075 | 1 | | 02/28/19 16:14 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.020 | 1 | | 02/28/19 16:14 | 75-09-2 | |
| Tetrachloroethene | **0.030** | mg/kg | 0.0050 | 0.00069 | 1 | | 02/28/19 16:14 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0057** | mg/kg | 0.0050 | 0.00065 | 1 | | 02/28/19 16:14 | 71-55-6 | |
| Trichloroethene | **0.043** | mg/kg | 0.0050 | 0.00058 | 1 | | 02/28/19 16:14 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.00042 | 1 | | 02/28/19 16:14 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 02/28/19 16:14 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | %. | 72-136 | | 1 | | 02/28/19 16:14 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 02/28/19 16:14 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **18.3** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:47 | | |



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## ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-34 SL (11-11.5)** **Lab ID: 50218035052** Collected: 02/27/19 13:07 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0053 | 0.00054 | 1 | | 02/28/19 16:52 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0053 | 0.00081 | 1 | | 02/28/19 16:52 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00070 | 1 | | 02/28/19 16:52 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00080 | 1 | | 02/28/19 16:52 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.021 | 1 | | 02/28/19 16:52 | 75-09-2 | |
| Tetrachloroethene | **0.016** | mg/kg | 0.0053 | 0.00074 | 1 | | 02/28/19 16:52 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0032J** | mg/kg | 0.0053 | 0.00069 | 1 | | 02/28/19 16:52 | 71-55-6 | |
| Trichloroethene | **0.025** | mg/kg | 0.0053 | 0.00062 | 1 | | 02/28/19 16:52 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0053 | 0.00045 | 1 | | 02/28/19 16:52 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 02/28/19 16:52 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | %. | 72-136 | | 1 | | 02/28/19 16:52 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 02/28/19 16:52 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **7.8** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:47 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-35 SL (6-7)** **Lab ID: 50218035053** Collected: 02/27/19 13:55 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0044 | 0.00045 | 1 | | 02/28/19 17:30 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0044 | 0.00066 | 1 | | 02/28/19 17:30 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0044 | 0.00058 | 1 | | 02/28/19 17:30 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0044 | 0.00066 | 1 | | 02/28/19 17:30 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.017 | 0.017 | 1 | | 02/28/19 17:30 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0044 | 0.00060 | 1 | | 02/28/19 17:30 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0018J** | mg/kg | 0.0044 | 0.00057 | 1 | | 02/28/19 17:30 | 71-55-6 | |
| Trichloroethene | **0.011** | mg/kg | 0.0044 | 0.00051 | 1 | | 02/28/19 17:30 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0044 | 0.00037 | 1 | | 02/28/19 17:30 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | %. | 80-127 | | 1 | | 02/28/19 17:30 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | %. | 72-136 | | 1 | | 02/28/19 17:30 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 02/28/19 17:30 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **6.7** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:48 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-35 SL (7.7-8.7)** **Lab ID: 50218035054** Collected: 02/27/19 13:57 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0048 | 0.00049 | 1 | | 02/28/19 18:08 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0048 | 0.00073 | 1 | | 02/28/19 18:08 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0048 | 0.00063 | 1 | | 02/28/19 18:08 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0048 | 0.00072 | 1 | | 02/28/19 18:08 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.019 | 1 | | 02/28/19 18:08 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0048 | 0.00066 | 1 | | 02/28/19 18:08 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0042J** | mg/kg | 0.0048 | 0.00062 | 1 | | 02/28/19 18:08 | 71-55-6 | |
| Trichloroethene | **0.025** | mg/kg | 0.0048 | 0.00056 | 1 | | 02/28/19 18:08 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0048 | 0.00040 | 1 | | 02/28/19 18:08 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 02/28/19 18:08 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | %. | 72-136 | | 1 | | 02/28/19 18:08 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 02/28/19 18:08 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **14.5** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:48 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-35 SL (9.5-10.5)** **Lab ID: 50218035055** Collected: 02/27/19 14:00 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | **0.0060J** | mg/kg | 0.0077 | 0.00078 | 1 | | 02/28/19 18:46 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0077 | 0.0012 | 1 | | 02/28/19 18:46 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0077 | 0.0010 | 1 | | 02/28/19 18:46 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0077 | 0.0012 | 1 | | 02/28/19 18:46 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.031 | 0.031 | 1 | | 02/28/19 18:46 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0077 | 0.0011 | 1 | | 02/28/19 18:46 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.032** | mg/kg | 0.0077 | 0.0010 | 1 | | 02/28/19 18:46 | 71-55-6 | |
| Trichloroethene | **0.078** J | mg/kg | 0.0077 | 0.00089 | 1 | | 02/28/19 18:46 | 79-01-6 | M1 |
| Vinyl chloride | ND UJ | mg/kg | 0.0077 | 0.00064 | 1 | | 02/28/19 18:46 | 75-01-4 | M1 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 103 | %. | 80-127 | | 1 | | 02/28/19 18:46 | 1868-53-7 | |
| Toluene-d8 (S) | 93 | %. | 72-136 | | 1 | | 02/28/19 18:46 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 02/28/19 18:46 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **6.7** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:48 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: DSB-35 SL (11.25-12.25)** **Lab ID: 50218035056** Collected: 02/27/19 14:05 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0053 | 0.00054 | 1 | | 02/28/19 20:02 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0053 | 0.00080 | 1 | | 02/28/19 20:02 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00069 | 1 | | 02/28/19 20:02 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00079 | 1 | | 02/28/19 20:02 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.021 | 1 | | 02/28/19 20:02 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0053 | 0.00072 | 1 | | 02/28/19 20:02 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0053 | 0.00068 | 1 | | 02/28/19 20:02 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0053 | 0.00061 | 1 | | 02/28/19 20:02 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0053 | 0.00044 | 1 | | 02/28/19 20:02 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 103 | %. | 80-127 | | 1 | | 02/28/19 20:02 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | %. | 72-136 | | 1 | | 02/28/19 20:02 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 | %. | 57-130 | | 1 | | 02/28/19 20:02 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **10.4** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:48 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: FD-7 SL** **Lab ID: 50218035057** Collected: 02/26/19 08:00 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0062 | 0.00063 | 1 | | 02/28/19 20:41 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0062 | 0.00094 | 1 | | 02/28/19 20:41 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0062 | 0.00081 | 1 | | 02/28/19 20:41 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0062 | 0.00092 | 1 | | 02/28/19 20:41 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.025 | 0.025 | 1 | | 02/28/19 20:41 | 75-09-2 | |
| Tetrachloroethene | **0.14** | mg/kg | 0.0062 | 0.00085 | 1 | | 02/28/19 20:41 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.011** | mg/kg | 0.0062 | 0.00080 | 1 | | 02/28/19 20:41 | 71-55-6 | |
| Trichloroethene | **0.088** | mg/kg | 0.0062 | 0.00071 | 1 | | 02/28/19 20:41 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0062 | 0.00052 | 1 | | 02/28/19 20:41 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 97 | %. | 80-127 | | 1 | | 02/28/19 20:41 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | %. | 72-136 | | 1 | | 02/28/19 20:41 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 02/28/19 20:41 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **14.0** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:48 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: FD-8 SL** **Lab ID: 50218035058** Collected: 02/26/19 08:00 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.00051 | 1 | | 02/28/19 21:19 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00076 | 1 | | 02/28/19 21:19 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00066 | 1 | | 02/28/19 21:19 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00075 | 1 | | 02/28/19 21:19 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.020 | 1 | | 02/28/19 21:19 | 75-09-2 | |
| Tetrachloroethene | **0.082** | mg/kg | 0.0050 | 0.00069 | 1 | | 02/28/19 21:19 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0059** | mg/kg | 0.0050 | 0.00065 | 1 | | 02/28/19 21:19 | 71-55-6 | |
| Trichloroethene | **0.057** | mg/kg | 0.0050 | 0.00058 | 1 | | 02/28/19 21:19 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.00042 | 1 | | 02/28/19 21:19 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 97 | %. | 80-127 | | 1 | | 02/28/19 21:19 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | %. | 72-136 | | 1 | | 02/28/19 21:19 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 02/28/19 21:19 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.7** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:48 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: FD-9 SL** **Lab ID: 50218035059** Collected: 02/27/19 08:00 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0055 | 0.00056 | 1 | | 02/28/19 21:57 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0055 | 0.00083 | 1 | | 02/28/19 21:57 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0055 | 0.00072 | 1 | | 02/28/19 21:57 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0055 | 0.00082 | 1 | | 02/28/19 21:57 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.022 | 0.022 | 1 | | 02/28/19 21:57 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0055 | 0.00076 | 1 | | 02/28/19 21:57 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.015** | mg/kg | 0.0055 | 0.00071 | 1 | | 02/28/19 21:57 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0055 | 0.00064 | 1 | | 02/28/19 21:57 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0055 | 0.00046 | 1 | | 02/28/19 21:57 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | %. | 80-127 | | 1 | | 02/28/19 21:57 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | %. | 72-136 | | 1 | | 02/28/19 21:57 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 97 | %. | 57-130 | | 1 | | 02/28/19 21:57 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **15.0** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:49 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: FD-10 SL** **Lab ID: 50218035060** Collected: 02/27/19 08:00 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0043 | 0.00043 | 1 | | 02/28/19 22:35 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0043 | 0.00065 | 1 | | 02/28/19 22:35 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 0.00056 | 1 | | 02/28/19 22:35 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 0.00064 | 1 | | 02/28/19 22:35 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.017 | 0.017 | 1 | | 02/28/19 22:35 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0043 | 0.00059 | 1 | | 02/28/19 22:35 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.017** | mg/kg | 0.0043 | 0.00055 | 1 | | 02/28/19 22:35 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0043 | 0.00049 | 1 | | 02/28/19 22:35 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0043 | 0.00036 | 1 | | 02/28/19 22:35 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 109 | %. | 80-127 | | 1 | | 02/28/19 22:35 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | %. | 72-136 | | 1 | | 02/28/19 22:35 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 97 | %. | 57-130 | | 1 | | 02/28/19 22:35 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.1** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:49 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: FD-11 SL** **Lab ID: 50218035061** Collected: 02/27/19 08:00 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0047 | 0.00048 | 1 | | 02/28/19 23:13 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0047 | 0.00071 | 1 | | 02/28/19 23:13 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0047 | 0.00062 | 1 | | 02/28/19 23:13 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0047 | 0.00070 | 1 | | 02/28/19 23:13 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.019 | 1 | | 02/28/19 23:13 | 75-09-2 | |
| Tetrachloroethene | ND | mg/kg | 0.0047 | 0.00064 | 1 | | 02/28/19 23:13 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0047 | 0.00061 | 1 | | 02/28/19 23:13 | 71-55-6 | |
| Trichloroethene | ND | mg/kg | 0.0047 | 0.00054 | 1 | | 02/28/19 23:13 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0047 | 0.00039 | 1 | | 02/28/19 23:13 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 02/28/19 23:13 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | %. | 72-136 | | 1 | | 02/28/19 23:13 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 97 | %. | 57-130 | | 1 | | 02/28/19 23:13 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **6.5** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:49 | | |

## REPORT OF LABORATORY ANALYSIS

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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: FD-12 SL** **Lab ID: 50218035062** Collected: 02/27/19 08:00 Received: 02/27/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0055 | 0.00056 | 1 | | 02/28/19 23:51 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0055 | 0.00084 | 1 | | 02/28/19 23:51 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0055 | 0.00073 | 1 | | 02/28/19 23:51 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0055 | 0.00083 | 1 | | 02/28/19 23:51 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.022 | 0.022 | 1 | | 02/28/19 23:51 | 75-09-2 | |
| Tetrachloroethene | **0.0055** | mg/kg | 0.0055 | 0.00076 | 1 | | 02/28/19 23:51 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0014J** | mg/kg | 0.0055 | 0.00072 | 1 | | 02/28/19 23:51 | 71-55-6 | |
| Trichloroethene | **0.014** | mg/kg | 0.0055 | 0.00064 | 1 | | 02/28/19 23:51 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0055 | 0.00046 | 1 | | 02/28/19 23:51 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | %. | 80-127 | | 1 | | 02/28/19 23:51 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | %. | 72-136 | | 1 | | 02/28/19 23:51 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 02/28/19 23:51 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **19.5** | % | 0.10 | 0.10 | 1 | | 02/28/19 12:49 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218035

**Sample: TB-3 WT** **Lab ID: 50218035063** Collected: 02/27/19 08:00 Received: 02/27/19 15:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260/5030 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.47 | 1 | | 02/28/19 14:34 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | 0.27 | 1 | | 02/28/19 14:34 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.48 | 1 | | 02/28/19 14:34 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.76 | 1 | | 02/28/19 14:34 | 156-60-5 | L1,M5 |
| Methylene Chloride | ND | ug/L | 5.0 | 5.0 | 1 | | 02/28/19 14:34 | 75-09-2 | M5 |
| Tetrachloroethene | ND | ug/L | 5.0 | 0.93 | 1 | | 02/28/19 14:34 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | 0.49 | 1 | | 02/28/19 14:34 | 71-55-6 | M5 |
| Trichloroethene | ND | ug/L | 5.0 | 0.64 | 1 | | 02/28/19 14:34 | 79-01-6 | M5 |
| Vinyl chloride | ND | ug/L | 2.0 | 0.97 | 1 | | 02/28/19 14:34 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 100 | %. | 89-116 | | 1 | | 02/28/19 14:34 | 1868-53-7 | M5 |
| 4-Bromofluorobenzene (S) | 100 | %. | 85-111 | | 1 | | 02/28/19 14:34 | 460-00-4 | M5 |
| Toluene-d8 (S) | 95 | %. | 87-110 | | 1 | | 02/28/19 14:34 | 2037-26-5 | M5 |



LT 03/28/19

LDC #: 44489A1a

# VALIDATION COMPLETENESS WORKSHEET

Level III/IV

SDG #: 50218035

Laboratory: Pace Analytical Energy Services, LLC

Date: 03/06/19

Page: 1 of 3

Reviewer: JG

2nd Reviewer: LT

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Sample receipt/Technical holding times | A / A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A / A | ICAL ≤ 20% rr ICV ≤ 30% |
| IV. | Continuing calibration | ~~SW~~ A | CCV ≤ 20% |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | ND | EB = 24 TB = 63 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | SW | |
| IX. | Laboratory control samples | SW | LCS |
| X. | Field duplicates | SW | D = 3/57, 16/58, 28/59, 37/60, 47/61*, 50/62 |
| XI. | Internal standards | SW | |
| XII. | Compound quantitation RL/LOQ/LODs | A | Not reviewed for Level III validation. |
| XIII. | Target compound identification | A | Not reviewed for Level III validation. |
| XIV. | System performance | A | Not reviewed for Level III validation. |
| XV. | Overall assessment of data | A | |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; * ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample underwent Level IV validation

| | Client ID | Lab ID | Matrix | Date |
|---|---|---|---|---|
| 1 | DSB-17 SL (8.8-9.8)** | 50218035001** | Soil | 02/26/19 |
| 2 | DSB-17 SL (10.5-11.5)** | 50218035002** | Soil | 02/26/19 |
| 3 | DSB-17 SL (12.75-13.75)** D1 | 50218035003** | Soil | 02/26/19 |
| 4 | DSB-18 SL (8.8-9.8)** | 50218035004** | Soil | 02/26/19 |
| 5 | DSB-18 SL (10.5-11.5)** | 50218035005** | Soil | 02/26/19 |
| 6 | DSB-18 SL (12.5-13.5)** | 50218035006** | Soil | 02/26/19 |
| 7 | DSB-19 SL (8.8-9.8)** | 50218035007** | Soil | 02/26/19 |
| 8 | DSB-19 SL (10.6-11.6)** | 50218035008** | Soil | 02/26/19 |
| 9 | DSB-19 SL (13.5-14.5)** | 50218035009** | Soil | 02/26/19 |
| 10 | DSB-20 SL (8.9-9.9)** | 50218035010** | Soil | 02/26/19 |
| 11 | DSB-20 SL (10.6-11.6)** | 50218035011** | Soil | 02/26/19 |
| 12 | DSB-20 SL (13-14) | 50218035012 | Soil | 02/26/19 |
| 13 | DSB-21 SL (8.7-9.7) | 50218035013 | Soil | 02/26/19 |

LDC #: 44489A1a **VALIDATION COMPLETENESS WORKSHEET** Date: 03/06/19
SDG #: 50218035 Level III/IV Page: 2 of 3
Laboratory: Pace Analytical Energy Services, LLC Reviewer: JG
2nd Reviewer: ET

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260C)

| | Client ID | Lab ID | Matrix | Date |
|---|---|---|---|---|
| 14 | DSB-21 SL (10.7-11.7) | 50218035014 | Soil | 02/26/19 |
| 15 | DSB-21 SL (12.5-13.5) | 50218035015 | Soil | 02/26/19 |
| 16 | DSB-21 SL (14-15) D2 | 50218035016 | Soil | 02/26/19 |
| 17 | DSB-22 SL (8.1-9.1) | 50218035017 | Soil | 02/26/19 |
| 18 | DSB-22 SL (10.1-11.1) | 50218035018 | Soil | 02/26/19 |
| 19 | DSB-22 SL (12-13) | 50218035019 | Soil | 02/26/19 |
| 20 | DSB-23 SL (7.2-8.2) | 50218035020 | Soil | 02/27/19 |
| 21 | DSB-23 SL (9.2-10.2) | 50218035021 | Soil | 02/27/19 |
| 22 | DSB-23 SL (11-12) | 50218035022 | Soil | 02/27/19 |
| 23 | DSB-23 SL (12.75-13.75) | 50218035023 | Soil | 02/27/19 |
| 24 | EB-3 WT | 50218035024 | Water | 02/27/19 |
| 25 | DSB-24 SL (5.5-6.5) | 50218035025 | Soil | 02/27/19 |
| 26 | DSB-24 SL (7.9-8.9) | 50218035026 | Soil | 02/27/19 |
| 27 | DSB-24 SL (9.25-10.25) | 50218035027 | Soil | 02/27/19 |
| 28 | DSB-25 SL (5.4-6.4) D3 | 50218035028 | Soil | 02/27/19 |
| 29 | DSB-25 SL (7.6-8.6) | 50218035029 | Soil | 02/27/19 |
| 30 | DSB-25 SL (6.5-7.5) | 50218035030 | Soil | 02/27/19 |
| 31 | DSB-26 SL (5.4-6.4) | 50218035031 | Soil | 02/27/19 |
| 32 | DSB-26 SL (7.6-8.6) | 50218035032 | Soil | 02/27/19 |
| 33 | DSB-26 SL (6.5-7.5) | 50218035033 | Soil | 02/27/19 |
| 34 | DSB-27 SL (5.3-6.3) | 50218035034 | Soil | 02/27/19 |
| 35 | DSB-27 SL (7.5-8.5) | 50218035035 | Soil | 02/27/19 |
| 36 | DSB-28 SL (5.3-6.3) | 50218035036 | Soil | 02/27/19 |
| 37 | DSB-28 SL (7.5-8.5) D4 | 50218035037 | Soil | 02/27/19 |
| 38 | DSB-29 SL (4.6-5.6) | 50218035038 | Soil | 02/27/19 |
| 39 | DSB-29 SL (6.8-7.8) | 50218035039 | Soil | 02/27/19 |
| 40 | DSB-30 SL (5.3-6.3) | 50218035040 | Soil | 02/27/19 |
| 41 | DSB-30 SL (7.5-8.5) | 50218035041 | Soil | 02/27/19 |
| 42 | DSB-31 SL (5.4-6.4) | 50218035042 | Soil | 02/27/19 |
| 43 | DSB-31 SL (7.6-8.6) | 50218035043 | Soil | 02/27/19 |
| 44 | DSB-31 SL (8.75-9.75) | 50218035044 | Soil | 02/27/19 |
| 45 | DSB-32 SL (5.8-6.8) | 50218035045 | Soil | 02/27/19 |
| 46 | DSB-32 SL (7.9-8.9) | 50218035046 | Soil | 02/27/19 |
| 47 | DSB-32 SL (9-10) D5 | 50218035047 | Soil | 02/27/19 |
| 48 | DSB-33 SL (6.7-7.7) | 50218035048 | Soil | 02/27/19 |

LDC #: 44489A1a **VALIDATION COMPLETENESS WORKSHEET** Date: 03/06/19
SDG #: 50218035 Level III/IV Page: 3 of 3
Laboratory: Pace Analytical Energy Services, LLC Reviewer: JVG
2nd Reviewer: LT

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260C)

| | Client ID | Lab ID | Matrix | Date |
|---|---|---|---|---|
| 49 | DSB-33 SL (8.7-9.7) | 50218035049 | Soil | 02/27/19 |
| 50 | DSB-34 SL (7.7-8.7) D6 | 50218035050 | Soil | 02/27/19 |
| 51 | DSB-34 SL (9.7-10.7) | 50218035051 | Soil | 02/27/19 |
| 52 | DSB-34 SL (11-11.5) | 50218035052 | Soil | 02/27/19 |
| 53 | DSB-~~34~~ 35 SL (6-7) | 50218035053 | Soil | 02/27/19 |
| 54 | DSB-35 SL (7.7-8.7) | 50218035054 | Soil | 02/27/19 |
| 55 | DSB-35 SL (9.5-10.5) | 50218035055 | Soil | 02/27/19 |
| 56 | DSB-35 SL (11.25-12.25) | 50218035056 | Soil | 02/27/19 |
| 57 | FD-7 SL D1 | 50218035057 | Soil | 02/27/19 |
| 58 | FD-8 SL D2 | 50218035058 | Soil | 02/27/19 |
| 59 | FD-9 SL D3 | 50218035059 | Soil | 02/27/19 |
| 60 | FD-10 SL D4 | 50218035060 | Soil | 02/27/19 |
| 61 | FD-11 SL D5 | 50218035061 | Soil | 02/27/19 |
| 62 | FD-12 SL D6 | 50218035062 | Soil | 02/27/19 |
| 63 | TB-3 WT | 50218035063 | Water | 02/27/19 |
| 64 | DSB-22 SL (8.1-9.1)MS | 50218035017MS | Soil | 02/26/19 |
| 65 | DSB-22 SL (8.1-9.1)MSD | 50218035017MSD | Soil | 02/26/19 |
| 66 | DSB-29 SL (6.8-7.8)MS | 50218035039MS | Soil | 02/27/19 |
| 67 | DSB-29 SL (6.8-7.8)MSD | 50218035039MSD | Soil | 02/27/19 |
| 68 | DSB-35 SL (9.5-10.5)MS | 50218035055MS | Soil | 02/27/19 |
| 69 | DSB-35 SL (9.5-10.5)MSD | 50218035055MSD | Soil | 02/27/19 |
| 70 | | | | |
| 71 | | | | |
| 72 | | | | |
| 73 | | | | |
| 74 | | | | |

Notes:

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | MB 2246003 | (1-15) | | | | |
| 2 | 2245393 | (16-23, 25, 28-32) | | | | |
| 3 | 2246939 | (27) | | | | |
| 4 | 2245760 | (26) | | | | |

5 2245415 (33-48)
6 2245585 (49-62
7 2245532 (24, 63)

LDC #: 44489A1a

# VALIDATION FINDINGS CHECKLIST


Reviewer: JVG
2nd Reviewer: VT

**Method:** Volatiles (EPA SW 846 Method 8260C)

| Validation Area | Yes | No | NA | Findings/Comments |
|---|---|---|---|---|
| ***I. Technical holding times*** | | | | |
| Were all technical holding times met? | ✓ | | | |
| Was cooler temperature criteria met? | ✓ | | | |
| ***II. GC/MS Instrument performance check*** | | | | |
| Were the BFB performance results reviewed and found to be within the specified criteria? | ✓ | | | |
| Were all samples analyzed within the 12 hour clock criteria? | ✓ | | | |
| ***IIIa. Initial calibration*** | | | | |
| Did the laboratory perform a 5 point calibration prior to sample analysis? | ✓ | | | |
| Were all percent relative standard deviations (%RSD) ≤ 20% and relative response factors (RRF) within method criteria? | ✓ | | | |
| Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990? | ✓ | | | |
| ***IIIb. Initial Calibration Verification*** | | | | |
| Was an initial calibration verification standard analyzed after each initial calibration for each instrument? | ✓ | | | |
| Were all percent differences (%D) ≤ 30%? | ✓ | | | |
| ***IV. Continuing calibration*** | | | | |
| Was a continuing calibration standard analyzed at least once every 12 hours for each instrument? | ✓ | | | |
| Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria? | ✓ | | | |
| ***V. Laboratory Blanks*** | | | | |
| Was a laboratory blank associated with every sample in this SDG? | ✓ | | | |
| Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration? | ✓ | | | |
| Was there contamination in the laboratory blanks? | | ✓ | | |
| ***VI. Field blanks*** | | | | |
| Were field blanks were identified in this SDG? | ✓ | | | |
| Were target compounds detected in the field blanks? | | ✓ | | |
| ***VII. Surrogate spikes*** | | | | |
| Were all surrogate percent recovery (%R) within QC limits? | ✓ | | | |
| If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria? | | | ✓ | |
| ***VIII. Matrix spike/Matrix spike duplicates*** | | | | |
| Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG? | ✓ | | | |
| Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits? | | ✓ | | |

LDC #: 44489A1a

**VALIDATION FINDINGS CHECKLIST**


Reviewer: JVG
2nd Reviewer: VT

| Validation Area | Yes | No | NA | Findings/Comments |
|---|---|---|---|---|
| ***IX. Laboratory control samples*** | | | | |
| Was an LCS analyzed per analytical batch? | ✓ | | | |
| Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits? | | ✓ | | |
| ***X. Field duplicates*** | | | | |
| Were field duplicate pairs identified in this SDG? | ✓ | | | |
| Were target compounds detected in the field duplicates? | ✓ | | | |
| ***XI. Internal standards*** | | | | |
| Were internal standard area counts within -50% to +100% of the associated calibration standard? | | ✓ | | |
| Were retention times within ± 30 seconds of the associated calibration standard? | ✓ | | | |
| ***XII. Compound quantitation*** | | | | |
| Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs? | ✓ | | | |
| Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound? | ✓ | | | |
| Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? | ✓ | | | |
| ***XIII. Target compound identification*** | | | | |
| Were relative retention times (RRT's) within ± 0.06 RRT units of the standard? | ✓ | | | |
| Did compound spectra meet specified EPA "Functional Guidelines" criteria? | ✓ | | | |
| Were chromatogram peaks verified and accounted for? | ✓ | | | |
| ***XIV. System performance*** | | | | |
| System performance was found to be acceptable. | ✓ | | | |
| ***XV. Overall assessment of data*** | | | | |
| Overall assessment of data was found to be acceptable. | ✓ | | | |

# TARGET COMPOUND WORKSHEET

**METHOD: VOA**

| | | | | | |
|---|---|---|---|---|---|
| A. Chloromethane | AA. Tetrachloroethene | AAA. 1,3,5-Trimethylbenzene | AAAA. Ethyl tert-butyl ether | A1. 1,3-Butadiene | A2. |
| B. Bromomethane | BB. 1,1,2,2-Tetrachloroethane | BBB. 4-Chlorotoluene | BBBB. tert-Amyl methyl ether | B1. Hexane | B2. |
| C. Vinyl choride | CC. Toluene | CCC. tert-Butylbenzene | CCCC. 1-Chlorohexane | C1. Heptane | C2. |
| D. Chloroethane | DD. Chlorobenzene | DDD. 1,2,4-Trimethylbenzene | DDDD. Isopropyl alcohol | D1. Propylene | D2. |
| E. Methylene chloride | EE. Ethylbenzene | EEE. sec-Butylbenzene | EEEE. Acetonitrile | E1. Freon 11 | E2. |
| F. Acetone | FF. Styrene | FFF. 1,3-Dichlorobenzene | FFFF. Acrolein | F1. Freon 12 | F2. |
| G. Carbon disulfide | GG. Xylenes, total | GGG. p-Isopropyltoluene | GGGG. Acrylonitrile | G1. Freon 113 | G2. |
| H. 1,1-Dichloroethene | HH. Vinyl acetate | HHH. 1,4-Dichlorobenzene | HHHH. 1,4-Dioxane | H1. Freon 114 | H2. |
| I. 1,1-Dichloroethane | II. 2-Chloroethylvinyl ether | III. n-Butylbenzene | IIII. Isobutyl alcohol | I1. 2-Nitropropane | I2. |
| J. 1,2-Dichloroethene, total | JJ. Dichlorodifluoromethane | JJJ. 1,2-Dichlorobenzene | JJJJ. Methacrylonitrile | J1. Dimethyl disulfide | J2. |
| K. Chloroform | KK. Trichlorofluoromethane | KKK. 1,2,4-Trichlorobenzene | KKKK. Propionitrile | K1. 2,3-Dimethyl pentane | K2. |
| L. 1,2-Dichloroethane | LL. Methyl-tert-butyl ether | LLL. Hexachlorobutadiene | LLLL. Ethyl ether | L1. 2,4-Dimethyl pentane | L2. |
| M. 2-Butanone | MM. 1,2-Dibromo-3-chloropropane | MMM. Naphthalene | MMMM. Benzyl chloride | M1. 3,3-Dimethyl pentane | M2. |
| N. 1,1,1-Trichloroethane | NN. Methyl ethyl ketone | NNN. 1,2,3-Trichlorobenzene | NNNN. Iodomethane | N1. 2-Methylpentane | N2. |
| O. Carbon tetrachloride | OO. 2,2-Dichloropropane | OOO. 1,3,5-Trichlorobenzene | OOOO.1,1-Difluoroethane | O1. 3-Methylpentane | O2. |
| P. Bromodichloromethane | PP. Bromochloromethane | PPP. trans-1,2-Dichloroethene | PPPP. Tetrahydrofuran | P1. 3-Ethylpentane | P2. |
| Q. 1,2-Dichloropropane | QQ. 1,1-Dichloropropene | QQQ. cis-1,2-Dichloroethene | QQQQ. Methyl acetate | Q1. 2,2-Dimethylpentane | Q2. |
| R. cis-1,3-Dichloropropene | RR. Dibromomethane | RRR. m,p-Xylenes | RRRR. Ethyl acetate | R1. 2,2,3- Trimethylbutane | R2. |
| S. Trichloroethene | SS. 1,3-Dichloropropane | SSS. o-Xylene | SSSS. Cyclohexane | S1. 2,2,4-Trimethylpentane | S2. |
| T. Dibromochloromethane | TT. 1,2-Dibromoethane | TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane | TTTT. Methylcyclohexane | T1. 2-Methylhexane | T2. |
| U. 1,1,2-Trichloroethane | UU. 1,1,1,2-Tetrachloroethane | UUU. 1,2-Dichlorotetrafluoroethane | UUUU. Allyl chloride | U1. Nonanal | U2. |
| V. Benzene | VV. Isopropylbenzene | VVV. 4-Ethyltoluene | VVVV. Methyl methacrylate | V1. 2-Methylnaphthalene | V2. |
| W. trans-1,3-Dichloropropene | WW. Bromobenzene | WWW. Ethanol | WWWW. Ethyl methacrylate | W1. Methanol | W2. |
| X. Bromoform | XX. 1,2,3-Trichloropropane | XXX. Di-isopropyl ether | XXXX. cis-1,4-Dichloro-2-butene | X1. 1,2,3-Trimethylbenzene | X2. |
| Y. 4-Methyl-2-pentanone | YY. n-Propylbenzene | YYY. tert-Butanol | YYYY. trans-1,4-Dichloro-2-butene | Y1. | Y2. |
| Z. 2-Hexanone | ZZ. 2-Chlorotoluene | ZZZ. tert-Butyl alcohol | ZZZZ. Pentachloroethane | Z1. | Z2. |

LDC #: 44489 A1a

# VALIDATION FINDINGS WORKSHEET
## Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: LT

**METHOD** : GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

| # | Date | MS/MSD ID | Compound | MS %R (Limits) | MSD %R (Limits) | RPD (Limits) | Associated Samples | Qualifications |
|---|---|---|---|---|---|---|---|---|
| | | 64/65 | AA | ( ) | ( ) | 31 ( 20 ) | 17 (Det) | J detects /A |
| | | | S | ( ) | ( ) | 21 ( ↓ ) | ↓ ↓ | ↓ |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | 68/69 | S | 30 (31-149) | 5 (31-149) | ( ) | 55 (Det) | J/UJ /A |
| | | | C | 1 (46-171) | 1 (46-171) | ( ) | ↓ (ND) | ↓ |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
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| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |

Note: RPD recalculated based on %R, spike conc. not comparable.

LDC #: 44489A1a

# VALIDATION FINDINGS WORKSHEET
## Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: LT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?

Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

| # | LCS/LCSD ID | Compound | LCS %R (Limits) | LCSD %R (Limits) | RPD (Limits) | Associated Samples | Qualifications |
|---|---|---|---|---|---|---|---|
| | LCS 2245533 | PPP | 124 (75-121) | ( ) | ( ) | 24, 63, MB7 (ND) | J dets/P |
| | | | ( ) | ( ) | ( ) | | |
| | | | ( ) | ( ) | ( ) | | |
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LDC #: 44489A1a

# VALIDATION FINDINGS WORKSHEET
## Field Duplicates


Reviewer: JVG
2nd reviewer: LT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260C)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds identified in the field duplicate pairs?

| Compound | Concentration ( mg/Kg) | | RPD |
|---|---|---|---|
| | 3 | 57 | |
| AA | 0.23 | 0.14 | 49 |
| N | 0.013 | 0.011 | 17 |
| S | 0.10 | 0.088 | 13 |

| Compound | Concentration ( mg/Kg) | | RPD |
|---|---|---|---|
| | 16 | 58 | |
| AA | 0.13 | 0.082 | 45 |
| N | 0.010 | 0.0059 | 52 |
| S | 0.098 | 0.057 | 53 |

| Compound | Concentration ( mg/Kg) | | RPD |
|---|---|---|---|
| | 28 | 59 | |
| N | 0.0084 | 0.015 | 56 |

| Compound | Concentration ( mg/Kg) | | RPD |
|---|---|---|---|
| | 37 | 60 | |
| N | 0.11 | 0.017 | 146 |

| Compound | Concentration ( mg/Kg) | | RPD |
|---|---|---|---|
| | 50 | 62 | |
| AA | 0.0041 | 0.0055 | 29 |
| N | 0.0010 | 0.0014 | 33 |
| S | 0.011 | 0.014 | 24 |

LDC #: 44489A1a

# VALIDATION FINDINGS WORKSHEET
## Internal Standards

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: LT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all internal standard area counts within -50 to +100% of the associated calibration standard?

(Y) N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

| # | Date | Sample ID | Internal Standard | Area (Limits) | RT (Limits) | Qualifications |
|---|---|---|---|---|---|---|
| | | 22 (ND) | CBZ | 29247 (29573 - 118292) | | J/UJ/P |
| | | 28 (ND + Det) | FBZ | 38172 (38644.5 - 152578) | | |
| | | 30 (ND) | FBZ | 28832 | | |
| | | | CBZ | 24140 (29573 - 118292) | | |
| | | 35 (ND) | CBZ | 24307 (26668 - 106672) | | |
| | | 39 (ND) | CBZ | 26071 (29075.5 - 116302) | | J/UJ/A |

(BCM) = Bromochloromethane
(DFB) = 1,4-Difluorobenzene
(CBZ) = Chlorobenzene-d5
(PFB) = Pentafluorobenzene
(4DCB) = 1,4-Dichlorobenzene-d4
(2DCB) = 1,2-Dichlorobenzene-d4
(FBZ) = Fluorobenzene

CBZ = qual AA
FBZ = qual I, L, QQQ, PPP, E, N, S, C

INTST.wpd

LDC #: 44489A1a

# VALIDATION FINDINGS WORKSHEET
## Initial Calibration Calculation Verification

Page: _1_ of _1_
Reviewer: JVG
2nd Reviewer: VT

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

$A_x$ = Area of Compound
$C_x$ = Concentration of compound,
S= Standard deviation of the RRFs,

$A_{is}$ = Area of associated internal standard
$C_{is}$ = Concentration of internal standard
X = Mean of the RRFs

| # | Standard ID | Calibration Date | Compound (IS) | Reported RRF (RRF 50 std) | Recalculated RRF (RRF 50 std) | Reported Average RRF (Initial) | Recalculated Average RRF (Initial) | Reported %RSD | Recalculated %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 1 | ICAL 50MV5B | 2/26/2019 | Trichloroethene (FBZ) | 0.31371 | 0.31371 | 0.29514 | 0.29514 | 7.4734 | 7.4734 |
| | | | Tetrachloroethane (CBZ) | 0.49697 | 0.49697 | 0.46929 | 0.46930 | 7.6615 | 7.6615 |
| | | | | | | | | | |

LDC # 44489A1a

# VALIDATION FINDINGS WORKSHEET
## Continuing Calibration Calculation Verification


Reviewer: JVG
2nd Reviewer: LZ

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
RRF = (Ax)(Cis)/(Ais)(Cx)

Where:
ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
Ax = Area of compound,
Cx = Concentration of compound,
Ais = Area of associated internal standard
Cis = Concentration of internal standard

| # | Standard ID | Calibration Date | Compound (IS) | Average RRF (Initial) | Reported RRF (CCV) | Recalculated RRF (CCV) | Reported % D | Recalculated %D |
|---|---|---|---|---|---|---|---|---|
| 1 | B022819.B/B01CCV | 2/28/2019 | Trichloroethene (FBZ) | 0.29514 | 0.29451 | 0.29451 | 0.211 | 0.211 |
| | | | Tetrachloroethane (CBZ) | 0.46929 | 0.48857 | 0.48857 | 4.107 | 4.108 |
| | | | | | | | | |

LDC #: 44489 A1a

# VALIDATION FINDINGS WORKSHEET
## Surrogate Results Verification

Page: 1 of 1
Reviewer: JVG
2nd reviewer: GT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260C)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

**Sample ID:** #1

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|---|---|---|---|---|---|
| Dibromofluoromethane | 50.0 | 51.23 | 102 | 102 | 0 |
| 1,2-Dichloroethane-d4 | | | | | |
| Toluene-d8 | | 50.7 | 101 | 101 | |
| Bromofluorobenzene | | 48.81 | 98 | 98 | |

**Sample ID:**

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|---|---|---|---|---|---|
| Dibromofluoromethane | | | | | |
| 1,2-Dichloroethane-d4 | | | | | |
| Toluene-d8 | | | | | |
| Bromofluorobenzene | | | | | |

**Sample ID:**

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|---|---|---|---|---|---|
| Dibromofluoromethane | | | | | |
| 1,2-Dichloroethane-d4 | | | | | |
| Toluene-d8 | | | | | |
| Bromofluorobenzene | | | | | |

**Sample ID:**

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|---|---|---|---|---|---|
| Dibromofluoromethane | | | | | |
| 1,2-Dichloroethane-d4 | | | | | |
| Toluene-d8 | | | | | |
| Bromofluorobenzene | | | | | |

**Sample ID:**

| | Surrogate Spiked | Surrogate Found | Percent Recovery Reported | Percent Recovery Recalculated | Percent Difference |
|---|---|---|---|---|---|
| Dibromofluoromethane | | | | | |
| 1,2-Dichloroethane-d4 | | | | | |
| Toluene-d8 | | | | | |
| Bromofluorobenzene | | | | | |

LDC #: 44489 A1a

# VALIDATION FINDINGS WORKSHEET
## Matrix Spike/Matrix Spike Duplicates Results Verification


Reviewer: JVG
2nd Reviewer: LT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA  Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = I MSC - MSC I * 2/(MSC + MSDC)  MSC = Matrix spike concentration  MSDC = Matrix spike duplicate concentration

MS/MSD sample: 64/65

| Compound | Spike Added (mg/kg) | | Sample Concentration (mg/kg) | Spiked Sample Concentration (mg/kg) | | Matrix Spike Percent Recovery | | Matrix Spike Duplicate Percent Recovery | | MS/MSD RPD | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MS | MSD | ------ | MS | MSD | Reported | Recalc | Reported | Recalc | Reported | Recalculated |
| 1,2-Dichloroethene[a] | 0.0502 | 0.1196 | 0 | 0.04875 | 0.1170 | 97 | 97 | 98 | 98 | 82 | 82 |
| Trichloroethene | ↓ | ↓ | 0.0242 | 0.06985 | 0.1416 | 79 | 79 | 98 | 98 | 76 | 76 |
| Benzene | | | | | | | | | | | |
| Toluene | | | | | | | | | | | |
| Chlorobenzene | | | | | | | | | | | |

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 44989 A1a

# VALIDATION FINDINGS WORKSHEET
## Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: LT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA  Where: SSC = Spiked sample concentration
SA = Spike added

RPD = I LCSC - LCSDC I * 2/(LCSC + LCSDC)  LCSC = Laboraotry control sample concentration  LCSDC = Laboratory control sample duplicate concentration

LCS ID: LCS 2246004

| Compound | Spike Added (mg/kg) | | Spiked Sample Concentration (mg/kg) | | LCS Percent Recovery | | LCSD Percent Recovery | | LCS/LCSD RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| | LCS | LCSD | LCS | LCSD | Reported | Recalc. | Reported | Recalc. | Reported | Recalculated |
| 1,2-Dichloroethane | 0.05 | NA | 0.051 | NA | 103 | 103 | | | | |
| Trichloroethene | ✓ | ✓ | 0.045 | ✓ | 90 | 90 | | | | |
| Benzene | | | | | | | | | | |
| Toluene | | | | | | | | | | |
| Chlorobenzene | | | | | | | | | | |

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 44489 A1a

# VALIDATION FINDINGS WORKSHEET
## Sample Calculation Verification


Reviewer: JVG
2nd reviewer: LT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260C)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

$A_x$ = Area of the characteristic ion (EICP) for the compound to be measured

$A_{is}$ = Area of the characteristic ion (EICP) for the specific internal standard

$I_s$ = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

$V_o$ = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 1, 9:

Conc. = $\frac{(9351)(50.0)(5\ ml)}{(125249)(0.29514)(5.637g)(0.884)(1000)}$

= 0.0126 mg/kg

| # | Sample ID | Compound | Reported Concentration (mg/kg) | Calculated Concentration ( ) | Qualification |
|---|---|---|---|---|---|
| | | | 0.013 | | |
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**LDC Report#** 44489C1a

# Laboratory Data Consultants, Inc.
# Data Validation Report

**Project/Site Name:** Former Amphenol Facility

**LDC Report Date:** March 6, 2019

**Parameters:** Volatiles

**Validation Level:** Level III

**Laboratory:** Pace Analytical Services, LLC.

**Sample Delivery Group (SDG):** 50218176

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|---|---|---|---|
| DSB-36 SL (8.3-9.3) | 50218176001 | Soil | 02/27/19 |
| DSB-36 SL (10.3-11.3) | 50218176002 | Soil | 02/27/19 |
| DSB-36 SL (13-14) | 50218176003 | Soil | 02/27/19 |
| DSB-37 SL (8.9-9.9) | 50218176004 | Soil | 02/27/19 |
| DSB-37 SL (10.6-11.6) | 50218176005 | Soil | 02/27/19 |
| DSB-37 SL (13-14) | 50218176006 | Soil | 02/27/19 |
| DSB-38 SL (8.8-9.8) | 50218176007 | Soil | 02/27/19 |
| DSB-38 SL (10.5-11.5) | 50218176008 | Soil | 02/27/19 |
| DSB-38 SL (12.25-13.25) | 50218176009 | Soil | 02/27/19 |
| DSB-39 SL (8.5-9.5) | 50218176010 | Soil | 02/28/19 |
| DSB-39 SL (10.2-11.2) | 50218176011 | Soil | 02/28/19 |
| DSB-39 SL (12-13) | 50218176012 | Soil | 02/28/19 |
| DSB-39 SL (13.5-14.5) | 50218176013 | Soil | 02/28/19 |
| DSB-40 SL (8.5-9.5) | 50218176014 | Soil | 02/28/19 |
| DSB-40 SL (10.2-11.2) | 50218176015 | Soil | 02/28/19 |
| DSB-40 SL (12-13) | 50218176016 | Soil | 02/28/19 |
| DSB-40 SL (13.5-14.5) | 50218176017 | Soil | 02/28/19 |
| DSB-41 SL (8.4-9.4) | 50218176018 | Soil | 02/28/19 |
| DSB-41 SL (10.1-11.1) | 50218176019 | Soil | 02/28/19 |
| DSB-41 SL (12.5-13.5) | 50218176020 | Soil | 02/28/19 |
| DSB-42 SL (8.4-9.4) | 50218176021 | Soil | 02/28/19 |
| DSB-42 SL (10.1-11.1) | 50218176022 | Soil | 02/28/19 |
| DSB-42 SL (13-14) | 50218176023 | Soil | 02/28/19 |
| DSB-43 SL (8.4-9.4) | 50218176024 | Soil | 02/28/19 |
| DSB-43 SL (10.1-11.1) | 50218176025 | Soil | 02/28/19 |
| DSB-43 SL (12.5-13.5) | 50218176026 | Soil | 02/28/19 |

| Sample Identification | Laboratory Sample Identification | Matrix | Collection Date |
|---|---|---|---|
| DSB-44 SL (7.9-8.9) | 50218176027 | Soil | 02/28/19 |
| DSB-44 SL (9.5-10.5) | 50218176028 | Soil | 02/28/19 |
| DSB-44 SL (12.5-13.5) | 50218176029 | Soil | 02/28/19 |
| DSB-44 SL (15.5-16.5) | 50218176030 | Soil | 02/28/19 |
| FD-13 SL | 50218176031 | Soil | 02/28/19 |
| FD-14 SL | 50218176032 | Soil | 02/28/19 |
| FD-15 SL | 50218176033 | Soil | 02/28/19 |
| TB-4 WT | 50218176034 | Water | 02/28/19 |
| EB-4 WT | 50218176035 | Water | 02/28/19 |
| DSB-41 SL (8.4-9.4)MS | 50218176018MS | Soil | 02/28/19 |
| DSB-41 SL (8.4-9.4)MSD | 50218176018MSD | Soil | 02/28/19 |

## Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Design-Level Data Soil Investigation work Plan, Franklin Power Products, Inc./Amphenol Corporation, Franklin, Indiana (February 2019), the Additional Off-Site Groundwater Investigation Work Plan, Franklin Power Products, Inc./Amphenol Corporation, Franklin, Indiana (February 2019), and a modified outline of the USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (January 2017). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260C

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

## I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

## II. GC/MS Instrument Performance Check

A bromofluorobenzene (BFB) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

## III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Average relative response factors (RRF) for all compounds were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 30.0% for all compounds.

## IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds with the following exceptions:

| Date | Compound | %D | Associated Samples | Flag | A or P |
|---|---|---|---|---|---|
| 03/01/19 (B030119.B) | Vinyl chloride | 35.1973 | DSB-40 SL (12-13)<br>DSB-40 SL (13.5-14.5)<br>DSB-41 SL (10.1-11.1)<br>DSB-41 SL (12.5-13.5)<br>DSB-42 SL (8.4-9.4)<br>DSB-42 SL (10.1-11.1)<br>DSB-42 SL (13-14)<br>DSB-43 SL (8.4-9.4)<br>DSB-43 SL (12.5-13.5)<br>DSB-44 SL (7.9-8.9)<br>DSB-44 SL (9.5-10.5)<br>DSB-44 SL (12.5-13.5)<br>DSB-44 SL (15.5-16.5)<br>FD-13 SL<br>FD-14 SL<br>FD-15 SL | UJ (all non-detects) | A |

All of the continuing calibration relative response factors (RRF) were within validation criteria.

## V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

## VI. Field Blanks

Sample TB-4 WT was identified as a trip blank. No contaminants were found.

Sample EB-1 SL was identified as an equipment blank. No contaminants were found.

## VII. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

## VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits.

Relative percent differences (RPD) were within QC limits with the following exceptions:

| Spike ID (Associated Samples) | Compound | RPD (Limits) | Flag | A or P |
|---|---|---|---|---|
| DSB-41 SL (8.4-9.4)MS/MSD (DSB-41 SL (8.4-9.4)) | Tetrachloroethene<br>Trichloroethene | 67 (≤20)<br>23 (≤20) | J (all detects)<br>J (all detects) | A |

## IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

## X. Field Duplicates

Samples DSB-39 SL (10.2-11.2) and FD-13 SL, samples DSB-42 SL (13-14) and FD-14 SL, and samples DSB-44 SL (15.5-16.5) and FD-15 SL were identified as field duplicates. No results were detected in any of the samples with the following exceptions:

| Compound | Concentration (mg/Kg) | | RPD |
|---|---|---|---|
| | DSB-39 SL (10.2-11.2) | FD-13 SL | |
| Tetrachloroethene | 0.051 | 0.074 | 37 |
| 1,1,1-Trichloroethane | 0.0058U | 0.0018 | Not calculable |
| Trichloroethene | 0.013 | 0.020 | 42 |

| Compound | Concentration (mg/Kg) | | RPD |
|---|---|---|---|
| | DSB-42 SL (13-14) | FD-14 SL | |
| Tetrachloroethene | 0.11 | 0.11 | 0 |
| 1,1,1-Trichloroethane | 0.015 | 0.016 | 6 |
| Trichloroethene | 0.096 | 0.097 | 1 |

| Compound | Concentration (mg/Kg) | | RPD |
|---|---|---|---|
| | DSB-44 SL (15.5-16.5) | FD-15 SL | |
| Tetrachloroethene | 0.21 | 0.14 | 40 |
| 1,1,1-Trichloroethane | 0.057 | 0.028 | 68 |
| Trichloroethene | 0.28 | 0.14 | 67 |

## XI. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

| Sample | Internal Standards | Area (Limits) | Affected Compound | Flag | A or P |
|---|---|---|---|---|---|
| DSB-37 SL (8.9-9.9) | Fluorobenzene<br>Chlorobenzene-d5 | 34600 (38811-155244)<br>30395 (30544.5-122178) | All compounds | J (all detects)<br>UJ (all non-detects) | P |

## XII. Compound Quantitation

Raw data were not reviewed for Level III validation.

## XIII. Target Compound Identifications

Raw data were not reviewed for Level III validation.

## XIV. System Performance

Raw data were not reviewed for Level III validation.

## XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to continuing calibration %D, MS/MSD RPD, and internal standard area, data were qualified as estimated in eighteen samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

**Former Amphenol Facility**
**Volatiles - Data Qualification Summary - SDG 50218176**

| Sample | Compound | Flag | A or P | Reason |
|---|---|---|---|---|
| DSB-40 SL (12-13)<br>DSB-40 SL (13.5-14.5)<br>DSB-41 SL (10.1-11.1)<br>DSB-41 SL (12.5-13.5)<br>DSB-42 SL (8.4-9.4)<br>DSB-42 SL (10.1-11.1)<br>DSB-42 SL (13-14)<br>DSB-43 SL (8.4-9.4)<br>DSB-43 SL (12.5-13.5)<br>DSB-44 SL (7.9-8.9)<br>DSB-44 SL (9.5-10.5)<br>DSB-44 SL (12.5-13.5)<br>DSB-44 SL (15.5-16.5)<br>FD-13 SL<br>FD-14 SL<br>FD-15 SL | Vinyl chloride | UJ (all non-detects) | A | Continuing calibration (%D) |
| DSB-41 SL (8.4-9.4) | Tetrachloroethene<br>Trichloroethene | J (all detects)<br>J (all detects) | A | Matrix spike/Matrix spike duplicate (RPD) |
| DSB-37 SL (8.9-9.9) | All compounds | J (all detects)<br>UJ (all non-detects) | P | Internal standards (area) |

**Former Amphenol Facility**
**Volatiles - Laboratory Blank Data Qualification Summary - SDG 50218176**

No Sample Data Qualified in this SDG

**Former Amphenol Facility**
**Volatiles - Field Blank Data Qualification Summary - SDG 50218176**

No Sample Data Qualified in this SDG

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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-36 SL (8.3-9.3)** **Lab ID: 50218176001** Collected: 02/27/19 14:44 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0077 | 0.00020 | 1 | | 03/01/19 16:04 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0077 | 0.00031 | 1 | | 03/01/19 16:04 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0077 | 0.00042 | 1 | | 03/01/19 16:04 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0077 | 0.00043 | 1 | | 03/01/19 16:04 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.031 | 0.031 | 1 | | 03/01/19 16:04 | 75-09-2 | |
| Tetrachloroethene | **0.051** | mg/kg | 0.0077 | 0.00036 | 1 | | 03/01/19 16:04 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.048** | mg/kg | 0.0077 | 0.00036 | 1 | | 03/01/19 16:04 | 71-55-6 | |
| Trichloroethene | **0.33** | mg/kg | 0.0077 | 0.00059 | 1 | | 03/01/19 16:04 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0077 | 0.00031 | 1 | | 03/01/19 16:04 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 03/01/19 16:04 | 1868-53-7 | |
| Toluene-d8 (S) | 103 | %. | 72-136 | | 1 | | 03/01/19 16:04 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 93 | %. | 57-130 | | 1 | | 03/01/19 16:04 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **14.3** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:30 | | |



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LJ 03/28/19

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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-36 SL (10.3-11.3)** **Lab ID: 50218176002** Collected: 02/27/19 14:50 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0053 | 0.00014 | 1 | | 03/01/19 16:37 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0053 | 0.00021 | 1 | | 03/01/19 16:37 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00029 | 1 | | 03/01/19 16:37 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0053 | 0.00030 | 1 | | 03/01/19 16:37 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.021 | 1 | | 03/01/19 16:37 | 75-09-2 | |
| Tetrachloroethene | **0.073** | mg/kg | 0.0053 | 0.00024 | 1 | | 03/01/19 16:37 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0072** | mg/kg | 0.0053 | 0.00024 | 1 | | 03/01/19 16:37 | 71-55-6 | |
| Trichloroethene | **0.066** | mg/kg | 0.0053 | 0.00040 | 1 | | 03/01/19 16:37 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0053 | 0.00021 | 1 | | 03/01/19 16:37 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 03/01/19 16:37 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | %. | 72-136 | | 1 | | 03/01/19 16:37 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 03/01/19 16:37 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **17.2** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:31 | | |



VT 03/26/19

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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-36 SL (13-14)** **Lab ID: 50218176003** Collected: 02/27/19 14:55 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0044 | 0.00012 | 1 | | 03/01/19 17:11 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0044 | 0.00018 | 1 | | 03/01/19 17:11 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0044 | 0.00024 | 1 | | 03/01/19 17:11 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0044 | 0.00025 | 1 | | 03/01/19 17:11 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.018 | 0.018 | 1 | | 03/01/19 17:11 | 75-09-2 | |
| Tetrachloroethene | **0.13** | mg/kg | 0.0044 | 0.00020 | 1 | | 03/01/19 17:11 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.011** | mg/kg | 0.0044 | 0.00020 | 1 | | 03/01/19 17:11 | 71-55-6 | |
| Trichloroethene | **0.095** | mg/kg | 0.0044 | 0.00034 | 1 | | 03/01/19 17:11 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0044 | 0.00018 | 1 | | 03/01/19 17:11 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 103 | %. | 80-127 | | 1 | | 03/01/19 17:11 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | %. | 72-136 | | 1 | | 03/01/19 17:11 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 92 | %. | 57-130 | | 1 | | 03/01/19 17:11 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **6.9** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:31 | | |



LT 03/28/19

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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-37 SL (8.9-9.9)** **Lab ID: 50218176004** Collected: 02/27/19 15:10 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND UJ | mg/kg | 0.0083 | 0.00022 | 1 | | 03/01/19 17:44 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0083 | 0.00033 | 1 | | 03/01/19 17:44 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0083 | 0.00045 | 1 | | 03/01/19 17:44 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0083 | 0.00047 | 1 | | 03/01/19 17:44 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.033 | 0.033 | 1 | | 03/01/19 17:44 | 75-09-2 | |
| Tetrachloroethene | **0.023** J | mg/kg | 0.0083 | 0.00038 | 1 | | 03/01/19 17:44 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND UJ | mg/kg | 0.0083 | 0.00038 | 1 | | 03/01/19 17:44 | 71-55-6 | |
| Trichloroethene | **0.0028J** J | mg/kg | 0.0083 | 0.00063 | 1 | | 03/01/19 17:44 | 79-01-6 | |
| Vinyl chloride | ND UJ | mg/kg | 0.0083 | 0.00033 | 1 | | 03/01/19 17:44 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 120 | %. | 80-127 | | 1 | | 03/01/19 17:44 | 1868-53-7 | |
| Toluene-d8 (S) | 87 | %. | 72-136 | | 1 | | 03/01/19 17:44 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 102 | %. | 57-130 | | 1 | | 03/01/19 17:44 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.3** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:31 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-37 SL (10.6-11.6)** **Lab ID: 50218176005** Collected: 02/27/19 15:15 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0049 | 0.00013 | 1 | | 03/01/19 18:18 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00019 | 1 | | 03/01/19 18:18 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00026 | 1 | | 03/01/19 18:18 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00027 | 1 | | 03/01/19 18:18 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.019 | 1 | | 03/01/19 18:18 | 75-09-2 | |
| Tetrachloroethene | **0.093** | mg/kg | 0.0049 | 0.00022 | 1 | | 03/01/19 18:18 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0049** | mg/kg | 0.0049 | 0.00022 | 1 | | 03/01/19 18:18 | 71-55-6 | |
| Trichloroethene | **0.045** | mg/kg | 0.0049 | 0.00037 | 1 | | 03/01/19 18:18 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0049 | 0.00019 | 1 | | 03/01/19 18:18 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 03/01/19 18:18 | 1868-53-7 | |
| Toluene-d8 (S) | 93 | %. | 72-136 | | 1 | | 03/01/19 18:18 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 03/01/19 18:18 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **12.9** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:31 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-37 SL (13-14)** **Lab ID: 50218176006** Collected: 02/27/19 15:20 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0054 | 0.00014 | 1 | | 03/01/19 18:52 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0054 | 0.00021 | 1 | | 03/01/19 18:52 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0054 | 0.00029 | 1 | | 03/01/19 18:52 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0054 | 0.00030 | 1 | | 03/01/19 18:52 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.021 | 0.021 | 1 | | 03/01/19 18:52 | 75-09-2 | |
| Tetrachloroethene | **0.20** | mg/kg | 0.0054 | 0.00025 | 1 | | 03/01/19 18:52 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.018** | mg/kg | 0.0054 | 0.00025 | 1 | | 03/01/19 18:52 | 71-55-6 | |
| Trichloroethene | **0.13** | mg/kg | 0.0054 | 0.00041 | 1 | | 03/01/19 18:52 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0054 | 0.00021 | 1 | | 03/01/19 18:52 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 101 | %. | 80-127 | | 1 | | 03/01/19 18:52 | 1868-53-7 | |
| Toluene-d8 (S) | 94 | %. | 72-136 | | 1 | | 03/01/19 18:52 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 93 | %. | 57-130 | | 1 | | 03/01/19 18:52 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.1** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:31 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-38 SL (8.8-9.8)** **Lab ID: 50218176007** Collected: 02/27/19 15:35 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0058 | 0.00015 | 1 | | 03/01/19 19:25 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0058 | 0.00023 | 1 | | 03/01/19 19:25 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0058 | 0.00031 | 1 | | 03/01/19 19:25 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0058 | 0.00032 | 1 | | 03/01/19 19:25 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.023 | 0.023 | 1 | | 03/01/19 19:25 | 75-09-2 | |
| Tetrachloroethene | **0.036** | mg/kg | 0.0058 | 0.00027 | 1 | | 03/01/19 19:25 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0058 | 0.00027 | 1 | | 03/01/19 19:25 | 71-55-6 | |
| Trichloroethene | **0.0084** | mg/kg | 0.0058 | 0.00044 | 1 | | 03/01/19 19:25 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0058 | 0.00023 | 1 | | 03/01/19 19:25 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | %. | 80-127 | | 1 | | 03/01/19 19:25 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | %. | 72-136 | | 1 | | 03/01/19 19:25 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 95 | %. | 57-130 | | 1 | | 03/01/19 19:25 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **3.7** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:31 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-38 SL (10.5-11.5)** **Lab ID: 50218176008** Collected: 02/27/19 15:40 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0048 | 0.00013 | 1 | | 03/01/19 19:59 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0048 | 0.00019 | 1 | | 03/01/19 19:59 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0048 | 0.00026 | 1 | | 03/01/19 19:59 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0048 | 0.00027 | 1 | | 03/01/19 19:59 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.019 | 1 | | 03/01/19 19:59 | 75-09-2 | |
| Tetrachloroethene | **0.28** | mg/kg | 0.0048 | 0.00022 | 1 | | 03/01/19 19:59 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0085** | mg/kg | 0.0048 | 0.00022 | 1 | | 03/01/19 19:59 | 71-55-6 | |
| Trichloroethene | **0.079** | mg/kg | 0.0048 | 0.00037 | 1 | | 03/01/19 19:59 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0048 | 0.00019 | 1 | | 03/01/19 19:59 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 03/01/19 19:59 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | %. | 72-136 | | 1 | | 03/01/19 19:59 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 86 | %. | 57-130 | | 1 | | 03/01/19 19:59 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **12.4** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:31 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-38 SL (12.25-13.25)** **Lab ID: 50218176009** Collected: 02/27/19 15:43 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0044 | 0.00012 | 1 | | 03/01/19 20:32 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0044 | 0.00018 | 1 | | 03/01/19 20:32 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0044 | 0.00024 | 1 | | 03/01/19 20:32 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0044 | 0.00025 | 1 | | 03/01/19 20:32 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.018 | 0.018 | 1 | | 03/01/19 20:32 | 75-09-2 | |
| Tetrachloroethene | **0.24** | mg/kg | 0.0044 | 0.00020 | 1 | | 03/01/19 20:32 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.017** | mg/kg | 0.0044 | 0.00020 | 1 | | 03/01/19 20:32 | 71-55-6 | |
| Trichloroethene | **0.13** | mg/kg | 0.0044 | 0.00034 | 1 | | 03/01/19 20:32 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0044 | 0.00018 | 1 | | 03/01/19 20:32 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 03/01/19 20:32 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | %. | 72-136 | | 1 | | 03/01/19 20:32 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 89 | %. | 57-130 | | 1 | | 03/01/19 20:32 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.8** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:31 | | |

## REPORT OF LABORATORY ANALYSIS

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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-39 SL (8.5-9.5)** **Lab ID: 50218176010** Collected: 02/28/19 10:35 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.00013 | 1 | | 03/01/19 21:06 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00020 | 1 | | 03/01/19 21:06 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00027 | 1 | | 03/01/19 21:06 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00028 | 1 | | 03/01/19 21:06 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.020 | 1 | | 03/01/19 21:06 | 75-09-2 | |
| Tetrachloroethene | **0.033** | mg/kg | 0.0050 | 0.00023 | 1 | | 03/01/19 21:06 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.00023 | 1 | | 03/01/19 21:06 | 71-55-6 | |
| Trichloroethene | **0.017** | mg/kg | 0.0050 | 0.00038 | 1 | | 03/01/19 21:06 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0050 | 0.00020 | 1 | | 03/01/19 21:06 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 03/01/19 21:06 | 1868-53-7 | |
| Toluene-d8 (S) | 94 | %. | 72-136 | | 1 | | 03/01/19 21:06 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 93 | %. | 57-130 | | 1 | | 03/01/19 21:06 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.3** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:31 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-39 SL (10.2-11.2)** **Lab ID: 50218176011** Collected: 02/28/19 10:40 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0058 | 0.00015 | 1 | | 03/01/19 21:39 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0058 | 0.00023 | 1 | | 03/01/19 21:39 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0058 | 0.00031 | 1 | | 03/01/19 21:39 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0058 | 0.00032 | 1 | | 03/01/19 21:39 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.023 | 0.023 | 1 | | 03/01/19 21:39 | 75-09-2 | |
| Tetrachloroethene | **0.051** | mg/kg | 0.0058 | 0.00027 | 1 | | 03/01/19 21:39 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0058 | 0.00027 | 1 | | 03/01/19 21:39 | 71-55-6 | |
| Trichloroethene | **0.013** | mg/kg | 0.0058 | 0.00044 | 1 | | 03/01/19 21:39 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0058 | 0.00023 | 1 | | 03/01/19 21:39 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 03/01/19 21:39 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | %. | 72-136 | | 1 | | 03/01/19 21:39 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 95 | %. | 57-130 | | 1 | | 03/01/19 21:39 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.3** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:32 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-39 SL (12-13)** **Lab ID: 50218176012** Collected: 02/28/19 10:43 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0048 | 0.00013 | 1 | | 03/01/19 22:13 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0048 | 0.00019 | 1 | | 03/01/19 22:13 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0048 | 0.00026 | 1 | | 03/01/19 22:13 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0048 | 0.00027 | 1 | | 03/01/19 22:13 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.019 | 1 | | 03/01/19 22:13 | 75-09-2 | |
| Tetrachloroethene | **0.15** | mg/kg | 0.0048 | 0.00022 | 1 | | 03/01/19 22:13 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0048J** | mg/kg | 0.0048 | 0.00022 | 1 | | 03/01/19 22:13 | 71-55-6 | |
| Trichloroethene | **0.056** | mg/kg | 0.0048 | 0.00037 | 1 | | 03/01/19 22:13 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0048 | 0.00019 | 1 | | 03/01/19 22:13 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | %. | 80-127 | | 1 | | 03/01/19 22:13 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | %. | 72-136 | | 1 | | 03/01/19 22:13 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 94 | %. | 57-130 | | 1 | | 03/01/19 22:13 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.4** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:32 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-39 SL (13.5-14.5)** **Lab ID: 50218176013** Collected: 02/28/19 10:45 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0060 | 0.00015 | 1 | | 03/01/19 22:46 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0060 | 0.00024 | 1 | | 03/01/19 22:46 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0060 | 0.00032 | 1 | | 03/01/19 22:46 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0060 | 0.00033 | 1 | | 03/01/19 22:46 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.024 | 0.024 | 1 | | 03/01/19 22:46 | 75-09-2 | |
| Tetrachloroethene | **0.75** | mg/kg | 0.13 | 0.0059 | 25 | | 03/04/19 12:54 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.015** | mg/kg | 0.0060 | 0.00027 | 1 | | 03/01/19 22:46 | 71-55-6 | |
| Trichloroethene | **0.13** | mg/kg | 0.0060 | 0.00045 | 1 | | 03/01/19 22:46 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0060 | 0.00024 | 1 | | 03/01/19 22:46 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 107 | %. | 80-127 | | 1 | | 03/01/19 22:46 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | %. | 72-136 | | 1 | | 03/01/19 22:46 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 88 | %. | 57-130 | | 1 | | 03/01/19 22:46 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.5** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:32 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-40 SL (8.5-9.5)** **Lab ID: 50218176014** Collected: 02/28/19 10:55 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0045 | 0.00012 | 1 | | 03/01/19 23:20 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0045 | 0.00018 | 1 | | 03/01/19 23:20 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0045 | 0.00024 | 1 | | 03/01/19 23:20 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0045 | 0.00025 | 1 | | 03/01/19 23:20 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.018 | 0.018 | 1 | | 03/01/19 23:20 | 75-09-2 | |
| Tetrachloroethene | **0.026** | mg/kg | 0.0045 | 0.00021 | 1 | | 03/01/19 23:20 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0045 | 0.00021 | 1 | | 03/01/19 23:20 | 71-55-6 | |
| Trichloroethene | **0.0084** | mg/kg | 0.0045 | 0.00034 | 1 | | 03/01/19 23:20 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0045 | 0.00018 | 1 | | 03/01/19 23:20 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 108 | %. | 80-127 | | 1 | | 03/01/19 23:20 | 1868-53-7 | |
| Toluene-d8 (S) | 94 | %. | 72-136 | | 1 | | 03/01/19 23:20 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 03/01/19 23:20 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **6.9** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:32 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-40 SL (10.2-11.2)** **Lab ID: 50218176015** Collected: 02/28/19 10:57 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0043 | 0.00011 | 1 | | 03/01/19 23:54 | 75-34-3 | |
| 1,2-Dichloroethane | ND | mg/kg | 0.0043 | 0.00017 | 1 | | 03/01/19 23:54 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 0.00023 | 1 | | 03/01/19 23:54 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 0.00024 | 1 | | 03/01/19 23:54 | 156-60-5 | |
| Methylene Chloride | ND | mg/kg | 0.017 | 0.017 | 1 | | 03/01/19 23:54 | 75-09-2 | |
| Tetrachloroethene | **0.13** | mg/kg | 0.0043 | 0.00020 | 1 | | 03/01/19 23:54 | 127-18-4 | |
| 1,1,1-Trichloroethane | **0.0035J** | mg/kg | 0.0043 | 0.00020 | 1 | | 03/01/19 23:54 | 71-55-6 | |
| Trichloroethene | **0.039** | mg/kg | 0.0043 | 0.00032 | 1 | | 03/01/19 23:54 | 79-01-6 | |
| Vinyl chloride | ND | mg/kg | 0.0043 | 0.00017 | 1 | | 03/01/19 23:54 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 03/01/19 23:54 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | %. | 72-136 | | 1 | | 03/01/19 23:54 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 91 | %. | 57-130 | | 1 | | 03/01/19 23:54 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.0** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:32 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-40 SL (12-13)** **Lab ID: 50218176016** Collected: 02/28/19 11:05 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0047 | 0.00029 | 1 | | 03/01/19 13:51 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0047 | 0.00031 | 1 | | 03/01/19 13:51 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0047 | 0.00026 | 1 | | 03/01/19 13:51 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0047 | 0.00033 | 1 | | 03/01/19 13:51 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.0068 | 1 | | 03/01/19 13:51 | 75-09-2 | M5 |
| Tetrachloroethene | **0.078** | mg/kg | 0.0047 | 0.00029 | 1 | | 03/01/19 13:51 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0036J** | mg/kg | 0.0047 | 0.00032 | 1 | | 03/01/19 13:51 | 71-55-6 | M5 |
| Trichloroethene | **0.032** | mg/kg | 0.0047 | 0.00031 | 1 | | 03/01/19 13:51 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0047 | 0.0047 | 1 | | 03/01/19 13:51 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 03/01/19 13:51 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 104 | %. | 72-136 | | 1 | | 03/01/19 13:51 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 100 | %. | 57-130 | | 1 | | 03/01/19 13:51 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.1** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:32 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-40 SL (13.5-14.5)** **Lab ID: 50218176017** Collected: 02/28/19 11:00 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0041 | 0.00026 | 1 | | 03/01/19 14:26 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0041 | 0.00027 | 1 | | 03/01/19 14:26 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0041 | 0.00022 | 1 | | 03/01/19 14:26 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0041 | 0.00029 | 1 | | 03/01/19 14:26 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.016 | 0.0059 | 1 | | 03/01/19 14:26 | 75-09-2 | M5 |
| Tetrachloroethene | **0.14** | mg/kg | 0.0041 | 0.00026 | 1 | | 03/01/19 14:26 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0093** | mg/kg | 0.0041 | 0.00028 | 1 | | 03/01/19 14:26 | 71-55-6 | M5 |
| Trichloroethene | **0.068** | mg/kg | 0.0041 | 0.00027 | 1 | | 03/01/19 14:26 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0041 | 0.0041 | 1 | | 03/01/19 14:26 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 98 | %. | 80-127 | | 1 | | 03/01/19 14:26 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 106 | %. | 72-136 | | 1 | | 03/01/19 14:26 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 94 | %. | 57-130 | | 1 | | 03/01/19 14:26 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.1** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:32 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-41 SL (8.4-9.4)** **Lab ID: 50218176018** Collected: 02/28/19 11:45 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0084 | 0.00022 | 1 | | 03/02/19 00:27 | 75-34-3 | R1 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0084 | 0.00034 | 1 | | 03/02/19 00:27 | 107-06-2 | R1 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0084 | 0.00046 | 1 | | 03/02/19 00:27 | 156-59-2 | R1 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0084 | 0.00047 | 1 | | 03/02/19 00:27 | 156-60-5 | R1 |
| Methylene Chloride | ND | mg/kg | 0.034 | 0.034 | 1 | | 03/02/19 00:27 | 75-09-2 | R1 |
| Tetrachloroethene | **0.024** J | mg/kg | 0.0084 | 0.00039 | 1 | | 03/02/19 00:27 | 127-18-4 | R1 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0084 | 0.00039 | 1 | | 03/02/19 00:27 | 71-55-6 | R1 |
| Trichloroethene | **0.0093** J | mg/kg | 0.0084 | 0.00064 | 1 | | 03/02/19 00:27 | 79-01-6 | R1 |
| Vinyl chloride | ND | mg/kg | 0.0084 | 0.00034 | 1 | | 03/02/19 00:27 | 75-01-4 | R1 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 109 | %. | 80-127 | | 1 | | 03/02/19 00:27 | 1868-53-7 | |
| Toluene-d8 (S) | 94 | %. | 72-136 | | 1 | | 03/02/19 00:27 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 93 | %. | 57-130 | | 1 | | 03/02/19 00:27 | 460-00-4 | |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.1** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:32 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-41 SL (10.1-11.1)** **Lab ID: 50218176019** Collected: 02/28/19 11:43 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0051 | 0.00032 | 1 | | 03/01/19 15:00 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0051 | 0.00034 | 1 | | 03/01/19 15:00 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0051 | 0.00028 | 1 | | 03/01/19 15:00 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0051 | 0.00036 | 1 | | 03/01/19 15:00 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0073 | 1 | | 03/01/19 15:00 | 75-09-2 | M5 |
| Tetrachloroethene | **0.076** | mg/kg | 0.0051 | 0.00032 | 1 | | 03/01/19 15:00 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0026J** | mg/kg | 0.0051 | 0.00035 | 1 | | 03/01/19 15:00 | 71-55-6 | M5 |
| Trichloroethene | **0.024** | mg/kg | 0.0051 | 0.00034 | 1 | | 03/01/19 15:00 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0051 | 0.0051 | 1 | | 03/01/19 15:00 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 103 | %. | 80-127 | | 1 | | 03/01/19 15:00 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 103 | %. | 72-136 | | 1 | | 03/01/19 15:00 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 97 | %. | 57-130 | | 1 | | 03/01/19 15:00 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.7** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:33 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-41 SL (12.5-13.5)** **Lab ID: 50218176020** Collected: 02/28/19 11:40 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0043 | 0.00027 | 1 | | 03/01/19 15:41 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0043 | 0.00028 | 1 | | 03/01/19 15:41 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 0.00023 | 1 | | 03/01/19 15:41 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0043 | 0.00030 | 1 | | 03/01/19 15:41 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.017 | 0.0061 | 1 | | 03/01/19 15:41 | 75-09-2 | M5 |
| Tetrachloroethene | **0.14** | mg/kg | 0.0043 | 0.00027 | 1 | | 03/01/19 15:41 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0077** | mg/kg | 0.0043 | 0.00029 | 1 | | 03/01/19 15:41 | 71-55-6 | M5 |
| Trichloroethene | **0.057** | mg/kg | 0.0043 | 0.00028 | 1 | | 03/01/19 15:41 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0043 | 0.0043 | 1 | | 03/01/19 15:41 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 03/01/19 15:41 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 108 | %. | 72-136 | | 1 | | 03/01/19 15:41 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 93 | %. | 57-130 | | 1 | | 03/01/19 15:41 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **7.8** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:33 | | |



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## ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-42 SL (8.4-9.4)** **Lab ID: 50218176021** Collected: 02/28/19 12:05 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0047 | 0.00029 | 1 | | 03/01/19 16:15 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0047 | 0.00031 | 1 | | 03/01/19 16:15 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0047 | 0.00026 | 1 | | 03/01/19 16:15 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0047 | 0.00033 | 1 | | 03/01/19 16:15 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.0068 | 1 | | 03/01/19 16:15 | 75-09-2 | M5 |
| Tetrachloroethene | **0.030** | mg/kg | 0.0047 | 0.00029 | 1 | | 03/01/19 16:15 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0047 | 0.00032 | 1 | | 03/01/19 16:15 | 71-55-6 | M5 |
| Trichloroethene | **0.0045J** | mg/kg | 0.0047 | 0.00031 | 1 | | 03/01/19 16:15 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0047 | 0.0047 | 1 | | 03/01/19 16:15 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | %. | 80-127 | | 1 | | 03/01/19 16:15 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 105 | %. | 72-136 | | 1 | | 03/01/19 16:15 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 93 | %. | 57-130 | | 1 | | 03/01/19 16:15 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **7.3** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:55 | | |



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## ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-42 SL (10.1-11.1)** **Lab ID: 50218176022** Collected: 02/28/19 12:07 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0047 | 0.00029 | 1 | | 03/01/19 16:49 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0047 | 0.00031 | 1 | | 03/01/19 16:49 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0047 | 0.00026 | 1 | | 03/01/19 16:49 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0047 | 0.00033 | 1 | | 03/01/19 16:49 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.0068 | 1 | | 03/01/19 16:49 | 75-09-2 | M5 |
| Tetrachloroethene | **0.097** | mg/kg | 0.0047 | 0.00029 | 1 | | 03/01/19 16:49 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0023J** | mg/kg | 0.0047 | 0.00032 | 1 | | 03/01/19 16:49 | 71-55-6 | M5 |
| Trichloroethene | **0.025** | mg/kg | 0.0047 | 0.00031 | 1 | | 03/01/19 16:49 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0047 | 0.0047 | 1 | | 03/01/19 16:49 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 03/01/19 16:49 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 105 | %. | 72-136 | | 1 | | 03/01/19 16:49 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 03/01/19 16:49 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.7** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:55 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-42 SL (13-14)** **Lab ID: 50218176023** Collected: 02/28/19 12:10 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0049 | 0.00030 | 1 | | 03/01/19 17:24 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00032 | 1 | | 03/01/19 17:24 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00026 | 1 | | 03/01/19 17:24 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00034 | 1 | | 03/01/19 17:24 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0070 | 1 | | 03/01/19 17:24 | 75-09-2 | M5 |
| Tetrachloroethene | **0.11** | mg/kg | 0.0049 | 0.00030 | 1 | | 03/01/19 17:24 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.015** | mg/kg | 0.0049 | 0.00033 | 1 | | 03/01/19 17:24 | 71-55-6 | M5 |
| Trichloroethene | **0.096** | mg/kg | 0.0049 | 0.00032 | 1 | | 03/01/19 17:24 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0049 | 0.0049 | 1 | | 03/01/19 17:24 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 03/01/19 17:24 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 104 | %. | 72-136 | | 1 | | 03/01/19 17:24 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 94 | %. | 57-130 | | 1 | | 03/01/19 17:24 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.2** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:55 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-43 SL (8.4-9.4)** **Lab ID: 50218176024** Collected: 02/28/19 12:37 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0050 | 0.00031 | 1 | | 03/01/19 17:58 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0050 | 0.00033 | 1 | | 03/01/19 17:58 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00027 | 1 | | 03/01/19 17:58 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0050 | 0.00035 | 1 | | 03/01/19 17:58 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0071 | 1 | | 03/01/19 17:58 | 75-09-2 | M5 |
| Tetrachloroethene | **0.040** | mg/kg | 0.0050 | 0.00031 | 1 | | 03/01/19 17:58 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0050 | 0.00034 | 1 | | 03/01/19 17:58 | 71-55-6 | M5 |
| Trichloroethene | **0.018** | mg/kg | 0.0050 | 0.00033 | 1 | | 03/01/19 17:58 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0050 | 0.0050 | 1 | | 03/01/19 17:58 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 03/01/19 17:58 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 104 | %. | 72-136 | | 1 | | 03/01/19 17:58 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 98 | %. | 57-130 | | 1 | | 03/01/19 17:58 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.9** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:55 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-43 SL (10.1-11.1)** **Lab ID: 50218176025** Collected: 02/28/19 12:40 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0047 | 0.00029 | 1 | | 03/04/19 13:54 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0047 | 0.00031 | 1 | | 03/04/19 13:54 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0047 | 0.00025 | 1 | | 03/04/19 13:54 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0047 | 0.00033 | 1 | | 03/04/19 13:54 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.0067 | 1 | | 03/04/19 13:54 | 75-09-2 | M5 |
| Tetrachloroethene | **0.72** | mg/kg | 0.43 | 0.033 | 100 | | 03/04/19 14:51 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0052** | mg/kg | 0.0047 | 0.00032 | 1 | | 03/04/19 13:54 | 71-55-6 | M5 |
| Trichloroethene | **0.067** | mg/kg | 0.0047 | 0.00031 | 1 | | 03/04/19 13:54 | 79-01-6 | M5 |
| Vinyl chloride | ND | mg/kg | 0.0047 | 0.0047 | 1 | | 03/04/19 13:54 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 98 | %. | 80-127 | | 1 | | 03/04/19 13:54 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 112 | %. | 72-136 | | 1 | | 03/04/19 13:54 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 81 | %. | 57-130 | | 1 | | 03/04/19 13:54 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **7.6** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:56 | | |

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## ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-43 SL (12.5-13.5)** **Lab ID: 50218176026** Collected: 02/28/19 12:45 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0048 | 0.00030 | 1 | | 03/01/19 19:07 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0048 | 0.00032 | 1 | | 03/01/19 19:07 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0048 | 0.00026 | 1 | | 03/01/19 19:07 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0048 | 0.00034 | 1 | | 03/01/19 19:07 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.019 | 0.0069 | 1 | | 03/01/19 19:07 | 75-09-2 | M5 |
| Tetrachloroethene | **0.19** | mg/kg | 0.0048 | 0.00030 | 1 | | 03/01/19 19:07 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.013** | mg/kg | 0.0048 | 0.00033 | 1 | | 03/01/19 19:07 | 71-55-6 | M5 |
| Trichloroethene | **0.090** | mg/kg | 0.0048 | 0.00032 | 1 | | 03/01/19 19:07 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0048 | 0.0048 | 1 | | 03/01/19 19:07 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 101 | %. | 80-127 | | 1 | | 03/01/19 19:07 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 108 | %. | 72-136 | | 1 | | 03/01/19 19:07 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 92 | %. | 57-130 | | 1 | | 03/01/19 19:07 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.3** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:56 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-44 SL (7.9-8.9)** **Lab ID: 50218176027** Collected: 02/28/19 13:58 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0049 | 0.00031 | 1 | | 03/01/19 19:41 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00032 | 1 | | 03/01/19 19:41 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00027 | 1 | | 03/01/19 19:41 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00034 | 1 | | 03/01/19 19:41 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0070 | 1 | | 03/01/19 19:41 | 75-09-2 | M5 |
| Tetrachloroethene | **0.030** | mg/kg | 0.0049 | 0.00031 | 1 | | 03/01/19 19:41 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | ND | mg/kg | 0.0049 | 0.00033 | 1 | | 03/01/19 19:41 | 71-55-6 | M5 |
| Trichloroethene | **0.0069** | mg/kg | 0.0049 | 0.00032 | 1 | | 03/01/19 19:41 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0049 | 0.0049 | 1 | | 03/01/19 19:41 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | %. | 80-127 | | 1 | | 03/01/19 19:41 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 103 | %. | 72-136 | | 1 | | 03/01/19 19:41 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 100 | %. | 57-130 | | 1 | | 03/01/19 19:41 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **8.3** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:56 | | |



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## ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-44 SL (9.5-10.5)** **Lab ID: 50218176028** Collected: 02/28/19 13:56 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0075 | 0.00046 | 1 | | 03/01/19 20:16 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0075 | 0.00049 | 1 | | 03/01/19 20:16 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0075 | 0.00040 | 1 | | 03/01/19 20:16 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0075 | 0.00052 | 1 | | 03/01/19 20:16 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.030 | 0.011 | 1 | | 03/01/19 20:16 | 75-09-2 | M5 |
| Tetrachloroethene | **0.13** | mg/kg | 0.0075 | 0.00046 | 1 | | 03/01/19 20:16 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0023J** | mg/kg | 0.0075 | 0.00051 | 1 | | 03/01/19 20:16 | 71-55-6 | M5 |
| Trichloroethene | **0.021** | mg/kg | 0.0075 | 0.00049 | 1 | | 03/01/19 20:16 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0075 | 0.0075 | 1 | | 03/01/19 20:16 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 03/01/19 20:16 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 108 | %. | 72-136 | | 1 | | 03/01/19 20:16 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 96 | %. | 57-130 | | 1 | | 03/01/19 20:16 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **7.3** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:56 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-44 SL (12.5-13.5)** **Lab ID: 50218176029** Collected: 02/28/19 13:40 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0042 | 0.00026 | 1 | | 03/01/19 20:50 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0042 | 0.00027 | 1 | | 03/01/19 20:50 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0042 | 0.00022 | 1 | | 03/01/19 20:50 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0042 | 0.00029 | 1 | | 03/01/19 20:50 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.017 | 0.0059 | 1 | | 03/01/19 20:50 | 75-09-2 | M5 |
| Tetrachloroethene | **0.17** | mg/kg | 0.0042 | 0.00026 | 1 | | 03/01/19 20:50 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0060** | mg/kg | 0.0042 | 0.00028 | 1 | | 03/01/19 20:50 | 71-55-6 | M5 |
| Trichloroethene | **0.042** | mg/kg | 0.0042 | 0.00027 | 1 | | 03/01/19 20:50 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0042 | 0.0042 | 1 | | 03/01/19 20:50 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 103 | %. | 80-127 | | 1 | | 03/01/19 20:50 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 109 | %. | 72-136 | | 1 | | 03/01/19 20:50 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 93 | %. | 57-130 | | 1 | | 03/01/19 20:50 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.1** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:56 | | |



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## ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: DSB-44 SL (15.5-16.5)** **Lab ID: 50218176030** Collected: 02/28/19 13:35 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0058 | 0.00036 | 1 | | 03/01/19 21:25 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0058 | 0.00039 | 1 | | 03/01/19 21:25 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0058 | 0.00032 | 1 | | 03/01/19 21:25 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0058 | 0.00041 | 1 | | 03/01/19 21:25 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.023 | 0.0084 | 1 | | 03/01/19 21:25 | 75-09-2 | M5 |
| Tetrachloroethene | **0.21** | mg/kg | 0.0058 | 0.00036 | 1 | | 03/01/19 21:25 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.057** | mg/kg | 0.0058 | 0.00040 | 1 | | 03/01/19 21:25 | 71-55-6 | M5 |
| Trichloroethene | **0.28** | mg/kg | 0.0058 | 0.00039 | 1 | | 03/01/19 21:25 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0058 | 0.0058 | 1 | | 03/01/19 21:25 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | %. | 80-127 | | 1 | | 03/01/19 21:25 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 113 | %. | 72-136 | | 1 | | 03/01/19 21:25 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 93 | %. | 57-130 | | 1 | | 03/01/19 21:25 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **11.9** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:56 | | |



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## ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: FD-13 SL** **Lab ID: 50218176031** Collected: 02/28/19 08:00 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0049 | 0.00031 | 1 | | 03/01/19 21:59 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00033 | 1 | | 03/01/19 21:59 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00027 | 1 | | 03/01/19 21:59 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00034 | 1 | | 03/01/19 21:59 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0070 | 1 | | 03/01/19 21:59 | 75-09-2 | M5 |
| Tetrachloroethene | **0.074** | mg/kg | 0.0049 | 0.00031 | 1 | | 03/01/19 21:59 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.0018J** | mg/kg | 0.0049 | 0.00034 | 1 | | 03/01/19 21:59 | 71-55-6 | M5 |
| Trichloroethene | **0.020** | mg/kg | 0.0049 | 0.00033 | 1 | | 03/01/19 21:59 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0049 | 0.0049 | 1 | | 03/01/19 21:59 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 102 | %. | 80-127 | | 1 | | 03/01/19 21:59 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 106 | %. | 72-136 | | 1 | | 03/01/19 21:59 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 99 | %. | 57-130 | | 1 | | 03/01/19 21:59 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.7** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:56 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: FD-14 SL** **Lab ID: 50218176032** Collected: 02/28/19 08:00 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0049 | 0.00031 | 1 | | 03/01/19 22:33 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00033 | 1 | | 03/01/19 22:33 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00027 | 1 | | 03/01/19 22:33 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00034 | 1 | | 03/01/19 22:33 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0070 | 1 | | 03/01/19 22:33 | 75-09-2 | M5 |
| Tetrachloroethene | **0.11** | mg/kg | 0.0049 | 0.00031 | 1 | | 03/01/19 22:33 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.016** | mg/kg | 0.0049 | 0.00033 | 1 | | 03/01/19 22:33 | 71-55-6 | M5 |
| Trichloroethene | **0.097** | mg/kg | 0.0049 | 0.00033 | 1 | | 03/01/19 22:33 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0049 | 0.0049 | 1 | | 03/01/19 22:33 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 103 | %. | 80-127 | | 1 | | 03/01/19 22:33 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 106 | %. | 72-136 | | 1 | | 03/01/19 22:33 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 95 | %. | 57-130 | | 1 | | 03/01/19 22:33 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **9.8** | % | 0.10 | 0.10 | 1 | | 03/01/19 11:56 | | |



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VT 03/28/19

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: FD-15 SL** **Lab ID: 50218176033** Collected: 02/28/19 08:00 Received: 02/28/19 15:15 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV 5035A VOA** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | mg/kg | 0.0049 | 0.00031 | 1 | | 03/01/19 23:08 | 75-34-3 | M5 |
| 1,2-Dichloroethane | ND | mg/kg | 0.0049 | 0.00033 | 1 | | 03/01/19 23:08 | 107-06-2 | M5 |
| cis-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00027 | 1 | | 03/01/19 23:08 | 156-59-2 | M5 |
| trans-1,2-Dichloroethene | ND | mg/kg | 0.0049 | 0.00035 | 1 | | 03/01/19 23:08 | 156-60-5 | M5 |
| Methylene Chloride | ND | mg/kg | 0.020 | 0.0071 | 1 | | 03/01/19 23:08 | 75-09-2 | M5 |
| Tetrachloroethene | **0.14** | mg/kg | 0.0049 | 0.00031 | 1 | | 03/01/19 23:08 | 127-18-4 | M5 |
| 1,1,1-Trichloroethane | **0.028** | mg/kg | 0.0049 | 0.00034 | 1 | | 03/01/19 23:08 | 71-55-6 | M5 |
| Trichloroethene | **0.14** | mg/kg | 0.0049 | 0.00033 | 1 | | 03/01/19 23:08 | 79-01-6 | M5 |
| Vinyl chloride | ND UJ | mg/kg | 0.0049 | 0.0049 | 1 | | 03/01/19 23:08 | 75-01-4 | M5 |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | %. | 80-127 | | 1 | | 03/01/19 23:08 | 1868-53-7 | M5 |
| Toluene-d8 (S) | 106 | %. | 72-136 | | 1 | | 03/01/19 23:08 | 2037-26-5 | M5 |
| 4-Bromofluorobenzene (S) | 94 | %. | 57-130 | | 1 | | 03/01/19 23:08 | 460-00-4 | M5 |
| **Percent Moisture** | Analytical Method: SM 2540G | | | | | | | | |
| Percent Moisture | **13.8** | % | 0.10 | 0.10 | 1 | | 03/01/19 12:17 | | |



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# ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: TB-4 WT** **Lab ID: 50218176034** Collected: 02/28/19 08:00 Received: 02/28/19 15:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260/5030 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.47 | 1 | | 03/01/19 15:02 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | 0.32 | 1 | | 03/01/19 15:02 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.37 | 1 | | 03/01/19 15:02 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.86 | 1 | | 03/01/19 15:02 | 156-60-5 | |
| Methylene Chloride | ND | ug/L | 5.0 | 5.0 | 1 | | 03/01/19 15:02 | 75-09-2 | |
| Tetrachloroethene | ND | ug/L | 5.0 | 0.61 | 1 | | 03/01/19 15:02 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | 0.89 | 1 | | 03/01/19 15:02 | 71-55-6 | |
| Trichloroethene | ND | ug/L | 5.0 | 0.80 | 1 | | 03/01/19 15:02 | 79-01-6 | |
| Vinyl chloride | ND | ug/L | 2.0 | 0.27 | 1 | | 03/01/19 15:02 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 97 | %. | 89-116 | | 1 | | 03/01/19 15:02 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 104 | %. | 85-111 | | 1 | | 03/01/19 15:02 | 460-00-4 | |
| Toluene-d8 (S) | 95 | %. | 87-110 | | 1 | | 03/01/19 15:02 | 2037-26-5 | |



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## ANALYTICAL RESULTS

Project: Amphenol
Pace Project No.: 50218176

**Sample: EB-4 WT** **Lab ID: 50218176035** Collected: 02/28/19 12:55 Received: 02/28/19 15:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260/5030 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.47 | 1 | | 03/01/19 15:35 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 5.0 | 0.32 | 1 | | 03/01/19 15:35 | 107-06-2 | |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.37 | 1 | | 03/01/19 15:35 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.86 | 1 | | 03/01/19 15:35 | 156-60-5 | |
| Methylene Chloride | ND | ug/L | 5.0 | 5.0 | 1 | | 03/01/19 15:35 | 75-09-2 | |
| Tetrachloroethene | ND | ug/L | 5.0 | 0.61 | 1 | | 03/01/19 15:35 | 127-18-4 | |
| 1,1,1-Trichloroethane | ND | ug/L | 5.0 | 0.89 | 1 | | 03/01/19 15:35 | 71-55-6 | |
| Trichloroethene | ND | ug/L | 5.0 | 0.80 | 1 | | 03/01/19 15:35 | 79-01-6 | |
| Vinyl chloride | ND | ug/L | 2.0 | 0.27 | 1 | | 03/01/19 15:35 | 75-01-4 | |
| ***Surrogates*** | | | | | | | | | |
| Dibromofluoromethane (S) | 96 | %. | 89-116 | | 1 | | 03/01/19 15:35 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 103 | %. | 85-111 | | 1 | | 03/01/19 15:35 | 460-00-4 | |
| Toluene-d8 (S) | 95 | %. | 87-110 | | 1 | | 03/01/19 15:35 | 2037-26-5 | |



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LT 03/28/19

LDC #: 44489C1a

# VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 03/06/19

SDG #: 50218176

Page: 1 of 2

Laboratory: Pace Analytical Energy Services, LLC

Reviewer: SVG

2nd Reviewer: LT

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

| | Validation Area | | Comments |
|---|---|---|---|
| I. | Sample receipt/Technical holding times | A / A | |
| II. | GC/MS Instrument performance check | A | |
| III. | Initial calibration/ICV | A / A | ICAL ≤ 20? ICV ≤ 30? |
| IV. | Continuing calibration | SW | CCV ≤ 20? |
| V. | Laboratory Blanks | A | |
| VI. | Field blanks | ND | TB = 34 EB = 35 |
| VII. | Surrogate spikes | A | |
| VIII. | Matrix spike/Matrix spike duplicates | SW | |
| IX. | Laboratory control samples | A | LCS |
| X. | Field duplicates | SW | D = 11/31, 23/32, 30/33 |
| XI. | Internal standards | SW | |
| XII. | Compound quantitation RL/LOQ/LODs | N | |
| XIII. | Target compound identification | N | |
| XIV. | System performance | N | |
| XV. | Overall assessment of data | A | |

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

| | Client ID | Lab ID | Matrix | Date |
|---|---|---|---|---|
| 1 | DSB-36 SL (8.3-9.3) | 50218176001 | Soil | 02/27/19 |
| 2 | DSB-36 SL (10.3-11.3) | 50218176002 | Soil | 02/27/19 |
| 3 | DSB-36 SL (13-14) | 50218176003 | Soil | 02/27/19 |
| 4 | DSB-37 SL (8.9-9.9) | 50218176004 | Soil | 02/27/19 |
| 5 | DSB-37 SL (10.6-11.6) | 50218176005 | Soil | 02/27/19 |
| 6 | DSB-37 SL (13-14) | 50218176006 | Soil | 02/27/19 |
| 7 | DSB-38 SL (8.8-9.8) | 50218176007 | Soil | 02/27/19 |
| 8 | DSB-38 SL (10.5-11.5) | 50218176008 | Soil | 02/27/19 |
| 9 | DSB-38 SL (12.25-13.25) | 50218176009 | Soil | 02/27/19 |
| 10 | DSB-39 SL (8.5-9.5) | 50218176010 | Soil | 02/28/19 |
| 11 | DSB-39 SL (10.2-11.2) D1 | 50218176011 | Soil | 02/28/19 |
| 12 | DSB-39 SL (12-13) | 50218176012 | Soil | 02/28/19 |
| 13 | DSB-39 SL (13.5-14.5) | 50218176013 | Soil | 02/28/19 |

LDC #: 44489C1a **VALIDATION COMPLETENESS WORKSHEET** Date: 03/06/19
SDG #: 50218176 Level III Page: 2 of 2
Laboratory: Pace Analytical Energy Services, LLC Reviewer: SM
2nd Reviewer: ES

**METHOD:** GC/MS Volatiles (EPA SW 846 Method 8260C)

| | Client ID | Lab ID | Matrix | Date |
|---|---|---|---|---|
| 14 | DSB-40 SL (8.5-9.5) | 50218176014 | Soil | 02/28/19 |
| 15 | DSB-40 SL (10.2-11.2) | 50218176015 | Soil | 02/28/19 |
| 16 | DSB-40 SL (12-13) | 50218176016 | Soil | 02/28/19 |
| 17 | DSB-40 SL (13.5-14.5) | 50218176017 | Soil | 02/28/19 |
| 18 | DSB-41 SL (8.4-9.4) | 50218176018 | Soil | 02/28/19 |
| 19 | DSB-41 SL (10.1-11.1) | 50218176019 | Soil | 02/28/19 |
| 20 | DSB-41 SL (12.5-13.5) | 50218176020 | Soil | 02/28/19 |
| 21 | DSB-42 SL (8.4-9.4) | 50218176021 | Soil | 02/28/19 |
| 22 | DSB-42 SL (10.1-11.1) | 50218176022 | Soil | 02/28/19 |
| 23 | DSB-42 SL (13-14) D2 | 50218176023 | Soil | 02/28/19 |
| 24 | DSB-43 SL (8.4-9.4) | 50218176024 | Soil | 02/28/19 |
| 25 | DSB-43 SL (10.1-11.1) | 50218176025 | Soil | 02/28/19 |
| 26 | DSB-43 SL (12.5-13.5) | 50218176026 | Soil | 02/28/19 |
| 27 | DSB-44 SL (7.9-8.9) | 50218176027 | Soil | 02/28/19 |
| 28 | DSB-44 SL (9.5-10.5) | 50218176028 | Soil | 02/28/19 |
| 29 | DSB-44 SL (12.5-13.5) | 50218176029 | Soil | 02/28/19 |
| 30 | DSB-44 SL (15.5-16.5) D3 | 50218176030 | Soil | 02/28/19 |
| 31 | FD-13 SL D1 | 50218176031 | Soil | 02/28/19 |
| 32 | FD-14 SL D2 | 50218176032 | Soil | 02/28/19 |
| 33 | FD-15 SL D3 | 50218176033 | Soil | 02/28/19 |
| 34 | TB-4 WT | 50218176034 | Water | 02/28/19 |
| 35 | EB-4 WT | 50218176035 | Water | 02/28/19 |
| 36 | DSB-41 SL (8.4-9.4)MS | 50218176018MS | Soil | 02/28/19 |
| 37 | DSB-41 SL (8.4-9.4)MSD | 50218176018MSD | Soil | 02/28/19 |
| 38 | | | | |
| 39 | | | | |
| 40 | | | | |
| 41 | | | | |
| 42 | | | | |

Notes:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | MB 2246803 | (1-15, 18 | | | | | |
| 2 | 2247238 | (15, 17, 19-24, 26-33) | | | | | |
| 3 | 2248057 | (25) | | | | | |
| 4 | 2247177 | (34, 35) | | | | | |

Short list

# TARGET COMPOUND WORKSHEET

**METHOD: VOA**

| | | | | | |
|---|---|---|---|---|---|
| A. Chloromethane | AA. Tetrachloroethene | AAA. 1,3,5-Trimethylbenzene | AAAA. Ethyl tert-butyl ether | A1. 1,3-Butadiene | A2. |
| B. Bromomethane | BB. 1,1,2,2-Tetrachloroethane | BBB. 4-Chlorotoluene | BBBB. tert-Amyl methyl ether | B1. Hexane | B2. |
| C. Vinyl choride | CC. Toluene | CCC. tert-Butylbenzene | CCCC. 1-Chlorohexane | C1. Heptane | C2. |
| D. Chloroethane | DD. Chlorobenzene | DDD. 1,2,4-Trimethylbenzene | DDDD. Isopropyl alcohol | D1. Propylene | D2. |
| E. Methylene chloride | EE. Ethylbenzene | EEE. sec-Butylbenzene | EEEE. Acetonitrile | E1. Freon 11 | E2. |
| F. Acetone | FF. Styrene | FFF. 1,3-Dichlorobenzene | FFFF. Acrolein | F1. Freon 12 | F2. |
| G. Carbon disulfide | GG. Xylenes, total | GGG. p-Isopropyltoluene | GGGG. Acrylonitrile | G1. Freon 113 | G2. |
| H. 1,1-Dichloroethene | HH. Vinyl acetate | HHH. 1,4-Dichlorobenzene | HHHH. 1,4-Dioxane | H1. Freon 114 | H2. |
| I. 1,1-Dichloroethane | II. 2-Chloroethylvinyl ether | III. n-Butylbenzene | IIII. Isobutyl alcohol | I1. 2-Nitropropane | I2. |
| J. 1,2-Dichloroethene, total | JJ. Dichlorodifluoromethane | JJJ. 1,2-Dichlorobenzene | JJJJ. Methacrylonitrile | J1. Dimethyl disulfide | J2. |
| K. Chloroform | KK. Trichlorofluoromethane | KKK. 1,2,4-Trichlorobenzene | KKKK. Propionitrile | K1. 2,3-Dimethyl pentane | K2. |
| L. 1,2-Dichloroethane | LL. Methyl-tert-butyl ether | LLL. Hexachlorobutadiene | LLLL. Ethyl ether | L1. 2,4-Dimethyl pentane | L2. |
| M. 2-Butanone | MM. 1,2-Dibromo-3-chloropropane | MMM. Naphthalene | MMMM. Benzyl chloride | M1. 3,3-Dimethyl pentane | M2. |
| N. 1,1,1-Trichloroethane | NN. Methyl ethyl ketone | NNN. 1,2,3-Trichlorobenzene | NNNN. Iodomethane | N1. 2-Methylpentane | N2. |
| O. Carbon tetrachloride | OO. 2,2-Dichloropropane | OOO. 1,3,5-Trichlorobenzene | OOOO.1,1-Difluoroethane | O1. 3-Methylpentane | O2. |
| P. Bromodichloromethane | PP. Bromochloromethane | PPP. trans-1,2-Dichloroethene | PPPP. Tetrahydrofuran | P1. 3-Ethylpentane | P2. |
| Q. 1,2-Dichloropropane | QQ. 1,1-Dichloropropene | QQQ. cis-1,2-Dichloroethene | QQQQ. Methyl acetate | Q1. 2,2-Dimethylpentane | Q2. |
| R. cis-1,3-Dichloropropene | RR. Dibromomethane | RRR. m,p-Xylenes | RRRR. Ethyl acetate | R1. 2,2,3- Trimethylbutane | R2. |
| S. Trichloroethene | SS. 1,3-Dichloropropane | SSS. o-Xylene | SSSS. Cyclohexane | S1. 2,2,4-Trimethylpentane | S2. |
| T. Dibromochloromethane | TT. 1,2-Dibromoethane | TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane | TTTT. Methylcyclohexane | T1. 2-Methylhexane | T2. |
| U. 1,1,2-Trichloroethane | UU. 1,1,1,2-Tetrachloroethane | UUU. 1,2-Dichlorotetrafluoroethane | UUUU. Allyl chloride | U1. Nonanal | U2. |
| V. Benzene | VV. Isopropylbenzene | VVV. 4-Ethyltoluene | VVVV. Methyl methacrylate | V1. 2-Methylnaphthalene | V2. |
| W. trans-1,3-Dichloropropene | WW. Bromobenzene | WWW. Ethanol | WWWW. Ethyl methacrylate | W1. Methanol | W2. |
| X. Bromoform | XX. 1,2,3-Trichloropropane | XXX. Di-isopropyl ether | XXXX. cis-1,4-Dichloro-2-butene | X1. 1,2,3-Trimethylbenzene | X2. |
| Y. 4-Methyl-2-pentanone | YY. n-Propylbenzene | YYY. tert-Butanol | YYYY. trans-1,4-Dichloro-2-butene | Y1. | Y2. |
| Z. 2-Hexanone | ZZ. 2-Chlorotoluene | ZZZ. tert-Butyl alcohol | ZZZZ. Pentachloroethane | Z1. | Z2. |

LDC #: 44489 C1a

# VALIDATION FINDINGS WORKSHEET
## Continuing Calibration

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: LP

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y N N/A Were percent differences (%D) ≤20 % and relative response factors (RRF) within the method criteria?

| # | Date | Standard ID | Compound | Finding %D (Limit: ≤20.0%) | Finding RRF (Limit) | Associated Samples | Qualifications |
|---|---|---|---|---|---|---|---|
| | 03/01/19 | B030119.B | C | 35.1973 | | 16, 17, 19-24, 26-33, MB2 | (ND) J/UJ/A |

Note: * = Ave RRF failed method criteria but within validation criteria

LDC #: 44489C1a

# VALIDATION FINDINGS WORKSHEET
## Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: JVG
2nd Reviewer: CT

**METHOD** : GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

| # | Date | MS/MSD ID | Compound | MS %R (Limits) | MSD %R (Limits) | RPD (Limits) | Associated Samples | Qualifications |
|---|---|---|---|---|---|---|---|---|
| | | 36/37 | AA | ( ) | ( ) | 67 ( 20 ) | 18 (Det) | J dets (A) |
| | | | S | ( ) | ( ) | 23 ( ↓ ) | ↓ ↓ | ↓ |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |
| | | | | ( ) | ( ) | ( ) | | |

Note : RPD's recalculated based on %R, spike conc. not comparable

LDC #: 44489C1a

# VALIDATION FINDINGS WORKSHEET
## Field Duplicates


Reviewer: JVG
2nd reviewer: UT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260C)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds identified in the field duplicate pairs?

| Compound | Concentration ( mg/Kg) | | RPD |
|---|---|---|---|
| | 11 | 31 | |
| AA | 0.051 | 0.074 | 37 |
| N | 0.0058U | 0.0018 | NC |
| S | 0.013 | 0.020 | 42 |

| Compound | Concentration ( mg/Kg) | | RPD |
|---|---|---|---|
| | 23 | 32 | |
| AA | 0.11 | 0.11 | 0 |
| N | 0.015 | 0.016 | 6 |
| S | 0.096 | 0.097 | 1 |

| Compound | Concentration ( mg/Kg) | | RPD |
|---|---|---|---|
| | 30 | 33 | |
| AA | 0.21 | 0.14 | 40 |
| N | 0.057 | 0.028 | 68 |
| S | 0.28 | 0.14 | 67 |

V:\Josephine\FIELD DUPLICATES\44489C1a iwm amphenol.wpd

LDC #: 44489 C1a

# VALIDATION FINDINGS WORKSHEET
## Internal Standards


Reviewer: JVG
2nd Reviewer: UT

**METHOD:** GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Were all internal standard area counts within -50 to +100% of the associated calibration standard?

(Y) N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

| # | Date | Sample ID | Internal Standard | Area (Limits) | RT (Limits) | Qualifications |
|---|---|---|---|---|---|---|
| | 03/01/19 | 4 (ND + Det) | FBZ | 34600 (38811 - 155244) | | J/UJ/P |
| | | | CBZ | 30395 (30544.5 - 122178) | | (qual all) |

(BCM) = Bromochloromethane
(DFB) = 1,4-Difluorobenzene
(CBZ) = Chlorobenzene-d5
(PFB) = Pentafluorobenzene
(4DCB) = 1,4-Dichlorobenzene-d4
(2DCB) = 1,2-Dichlorobenzene-d4
(FBZ) = Fluorobenzene