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May 13, 2015

Erich Weissbart, P.G.
Land and Chemicals Division
U.S. Environmental Protection Agency, Region III
701 Mapes Road
Fort Meade, MD 20755

Re: Quarterly Status Report No. 5
Kop-Flex Voluntary Cleanup Site #31, Hanover, Maryland

Dear Erich:

WSP USA Corp., on behalf of Emerson, is submitting this progress report describing the investigation and remediation activities conducted in the first quarter 2015 at the Kop-Flex Voluntary Cleanup Program (VCP) site in Hanover, Maryland. The report also describes the activities planned for the second quarter 2015. If you have any questions, please do not hesitate to contact us at 703-709-6500.

Sincerely yours,

A handwritten signature in black ink that reads "Robert E. Johnson". The signature is fluid and cursive.

Robert E. Johnson, PhD.
Senior Technical Manager

REJ:rl0

k:\emerson\kop-flex\reporting\status reports\mde reports\2015\3705_042415rejrep_kopflex_progress_rpt_5_dft.docx

cc: Mr. Stephen Clarke, Emerson Electric Co. (electronic copy)
Ms. Richelle Hanson, Maryland Department of the Environment

Enclosures

Progress Report No. 5

Kop-Flex VCP Site #31

January 2015 through March 2015

Site Name: Kop-Flex Facility
Site Address: 7565 Harmans Road
Hanover, Maryland 21076

Consultant: WSP USA Corp.
Address: 11190 Sunrise Valley Dr., Suite 300
Reston, Virginia 20191
Phone No.: (703) 709-6500

Site Coordinator: Eric Johnson
Alternate: Jim Bulman

1.0 Onsite Activities

The following activities were conducted during the First Quarter 2015.

- A public informational meeting involving representatives of the Maryland Department of the Environment (MDE) was convened on January 29, 2015, at the Brooklyn Park Community Library in Brooklyn, Maryland. The meeting was held to obtain public input concerning the application for renewal of State Discharge Permit 15-DP-3442 and National Pollutant Discharge Elimination System Permit MD0069094 for the site.
- In February 2015, EMERSUB 16 LLC received a letter from the MDE Water Supply Program requesting additional information in support of the previously submitted application for a Water Appropriation and Use Permit. The permit is for the planned extraction of groundwater from the affected portions of the aquifer system as part of the future remedial activities at the site.
- A meeting between Emerson, WSP, Trammell Crow (property developer) and their consultants, and MDE and U.S. Environmental Protection Agency (EPA), Region III was held at the MDE offices in Baltimore, Maryland on March 3, 2015, to review the status of site investigation and remedial planning activities. At the meeting MDE indicated a comprehensive Response Action Plan (RAP) addressing both soil and groundwater impacts was needed for the site and outlined key points to be included in the RAP. For the off-property area, results of recent groundwater sampling activities were reviewed, and MDE and EPA Region III discussed approaches to a revised groundwater monitoring program to assess the groundwater quality in the area hydraulically downgradient of the site.
- As part of the March 2015 quarterly sampling event for the offsite monitoring wells (see below), water level measurements were obtained from selected deep wells at the site. A contour map of the potentiometric surface for the Lower Patapsco Aquifer based on the contouring of water level data from both on and off-property deep monitoring wells is provided in Figure 1. Evaluation of the hydraulic head data indicates a generally south-southeast flow path for groundwater in this deeper semi-confined aquifer.

Progress Report No. 5

Kop-Flex VCP Site #31

January 2015 through March 2015

2.0 Off-Property Activities

2.1 Offsite Monitoring Wells

- Recently installed off-property monitoring wells were sampled the week of March 16, 2015, as requested by MDE. The analytical results are presented in Table 1. (A copy of the laboratory report for these samples is provided in Enclosure A.) Historical sampling data for the off-property wells are summarized in Table 2. No site-related VOCs were detected in the samples from the two Surficial Aquifer wells (MW-25-40 and MW-28-45) (Figure 2). For the wells completed in the Lower Patapsco Aquifer, high VOC concentrations were detected in the sample from well MW-25-130, which is located in the residential area south of the former Kop-Flex facility and Maryland Route 100. The lower concentrations of VOCs in the sample from the deeper well at the MW-25 location (MW-25-192) is consistent with the vertical distribution of constituents determined from groundwater profiling at other on- and off-property deep monitoring well locations. The sampling data for the deep monitoring wells located further south of the MW-25 location contained trace to very low concentrations of the site-related VOCs (Figure 2). Additionally, 1,4-dioxane was not detected in the sample collected from the southeastern-most well (MW-35-298) in the investigation area (Table 1). Although this compound was detected at a concentration of 36.7 micrograms per liter in the September 2014 sample, the most recent data is consistent with the results from the December 2014 monitoring event.

2.2 Residential Well Sampling

- WSP continued with the sampling of the Phase 3 residential wells during the first quarter of 2015. These activities included sending, via Federal Express, a second access request letter to property owners on January 12, 2015, and conducting door-to-door visits to homeowners the week of February 9, 2015. As of the end of the reporting period, water samples have been collected from 28 residential wells and the non-potable well at the U.S. Post Office branch on Reece Road. The locations of the properties are shown in Figure 3. Fifteen of the properties either had no potable well on the property or declined access to collect a water sample. Six of the homeowners in the Phase 3 sampling area have not responded to repeated requests for access to conduct sampling, if a water-supply well is present on the property. It should also be noted that well sampling has not been conducted at one property (763 Donaldson Avenue) where access has been granted by the homeowner. WSP will remain in contact with the homeowner and anticipates sampling this well during the second quarter of 2015.

Table 3 summarizes the historical analytical results for the potable wells sampled in the Phase 3 area. Copies of the certified laboratory reports for these well samples collected during the first quarter 2015 are included in Enclosure B. Site-related VOCs were not been detected in any of the private well samples in the Phase 3 area, except for a trace concentration (0.77 micrograms per liter) of 1,2-dichloroethane in the sample collected from the property at 854 Reece Road. Given this detection, MDE requested the collection of additional samples from this well to further characterize the levels of site-related VOCs at this location.

- A letter report describing the 2014 quarterly residential well sampling activities was submitted to MDE on March 4, 2015. This report presented the analytical results for the following properties in the Phase 1 and 2 areas:

Progress Report No. 5

Kop-Flex VCP Site #31

January 2015 through March 2015

- 7718 Twin Oaks Road
- 7740 Twin Oaks Road
- 7742 Twin Oaks Road
- 7932 Andorick Drive
- 1227 Old Camp Meade Road
- 1012 Minnetonka Road

The locations of the properties are shown in the enclosed Figure 4. No site-related VOCs were detected at concentrations above the applicable federal or state standards in any of the samples. Based on evaluation of the sampling data, WSP recommended the continued monitoring of the residential wells at 7740 Twin Oaks Road and 7932 Andorick Drive on a semi-annual sampling schedule.

- On March 19, 2015, water samples were collected from the potable wells at 7740 Twin Oaks Road and 7932 Andorick Drive, which were identified for continued monitoring in the sampling report submitted to MDE. The residential well located at 854 Reece Road was not sampled due to the inability to schedule the sampling event with the homeowner.

The analytical results for these residential wells samples were received on April 14, 2015. Copies of the laboratory reporting sheets for these samples are included in the certified analytical reports provided in Enclosure B. No site-related VOCs were detected above the applicable groundwater comparative criteria in either of the well samples.

3.0 Planned Activities for Next Reporting Period (April 2015 – June 2015)

3.1 Onsite Activities

- Submittal of the site Response Action Plan (RAP) to MDE and completion of the public notification requirements (property sign and newspaper notice) pursuant to the MDE VCP guidance.
- Participation with MDE in a public informational meeting for the site RAP.
- Respond to information requests from MDE related to agency review of the Water Appropriation and Use Permit application.
- Conduct the first 2015 semi-annual sampling event for the existing onsite monitoring wells (including the deep well on the adjacent Williams-Scotsman property) in mid to late June.

3.2 Off-Property Activities

- Conduct the second quarter 2015 sampling of the off-property monitoring wells in conjunction with the semi-annual onsite groundwater sampling event.
- Submittal of a Groundwater Monitoring Plan for the off-property VOC plume to MDE and EPA Region III.

Progress Report No. 5

Kop-Flex VCP Site #31

January 2015 through March 2015

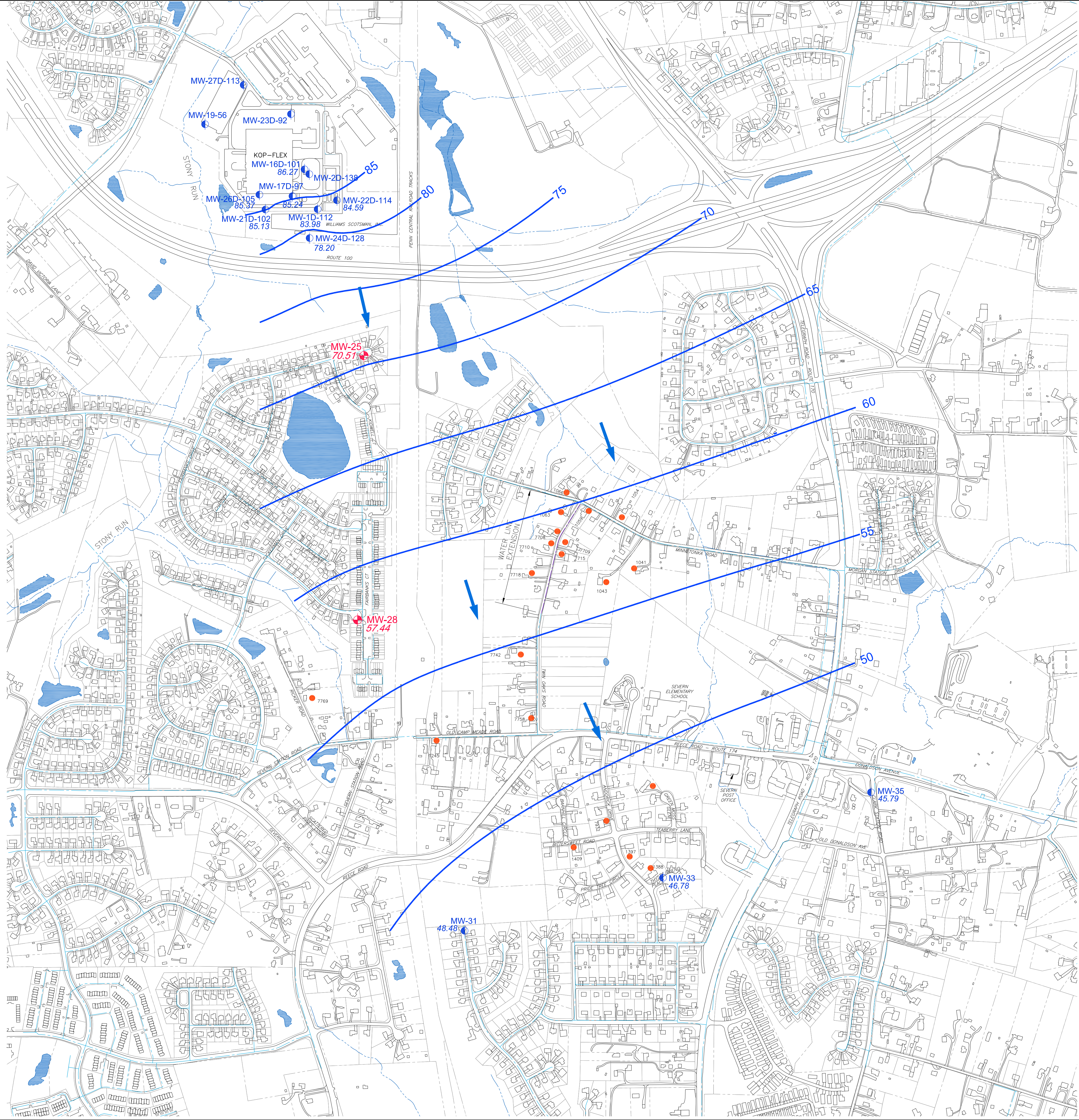
4.0 Key Personnel Changes

- There were no changes to key project personnel during the reporting period.

Figures

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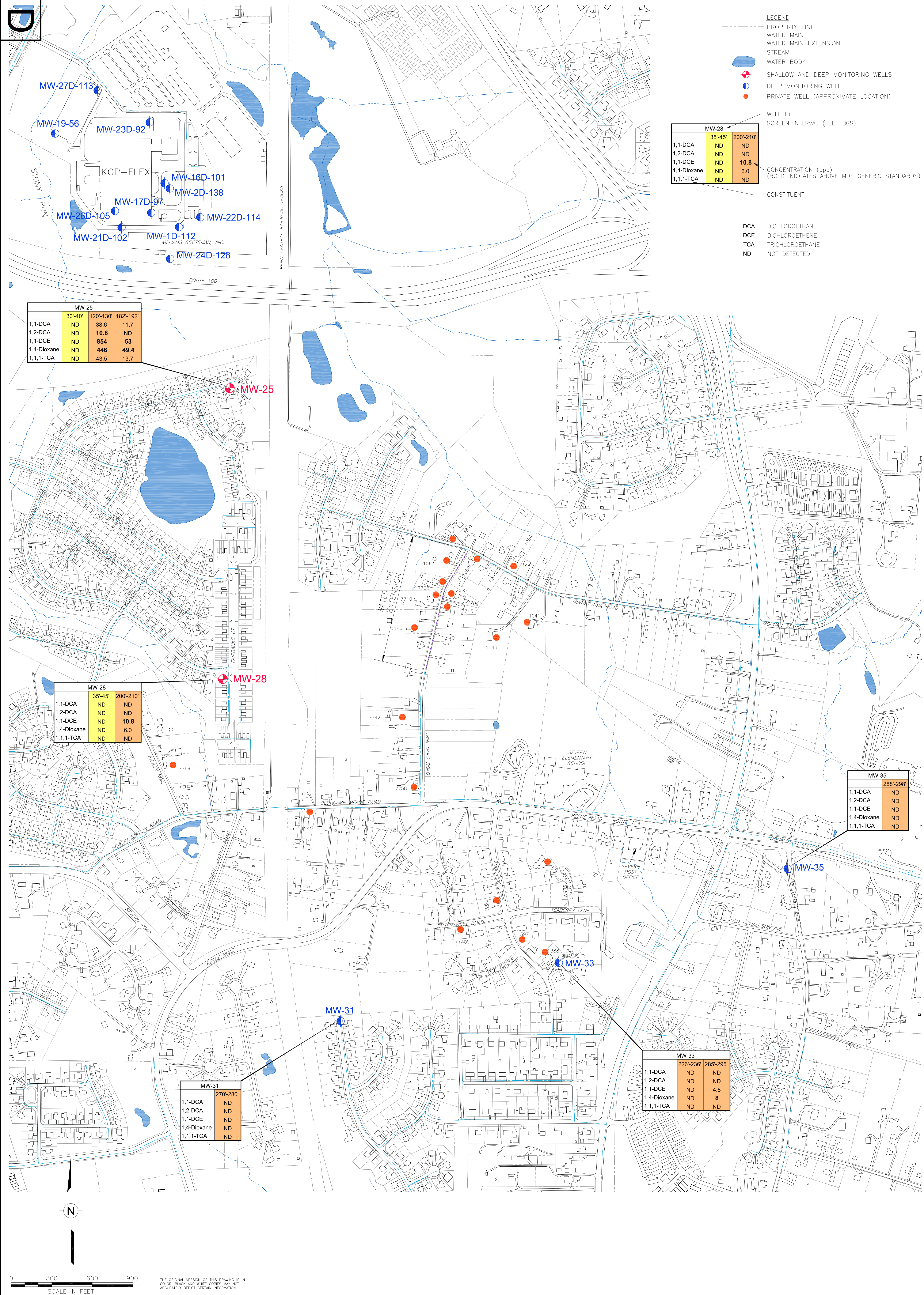
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- LEGEND
- - - - - PROPERTY LINE
 - WATER MAIN
 - - - - - WATER MAIN EXTENSION
 - STREAM
 - WATER BODY
 - SHALLOW AND DEEP MONITORING WELLS
 - DEEP MONITORING WELL
 - PRIVATE WELL (APPROXIMATE LOCATION)
 - POTENTIOMETRIC SURFACE CONTOUR (FEET MSL)
 - INFERRED GROUNDWATER FLOW DIRECTION

| POTENTIOMETRIC SURFACE CONTOURS FOR THE LOWER PATAPSCO AQUIFER (MARCH 2015) | | KOP-FLEX VCP SITE HANOVER, MARYLAND | PREPARED FOR EMERSON ST. LOUIS, MISSOURI | | | | | | | | | | | | | | | | | | | | | | | | |
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| | WSP USA Corp. 11190 Sunrise Valley Drive, Suite 300 Reston, Virginia 20191 (703) 709-6500 www.wspgroup.com/usa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FIGURE 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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OFFSITE MONITORING WELL
VOC CONCENTRATIONS
(MARCH 2015)
KOP-FLEX VCP SITE
HANOVER, MARYLAND
PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

DRAWN BY EGC
CHECKED RSW 4/10/2015
APPROVED

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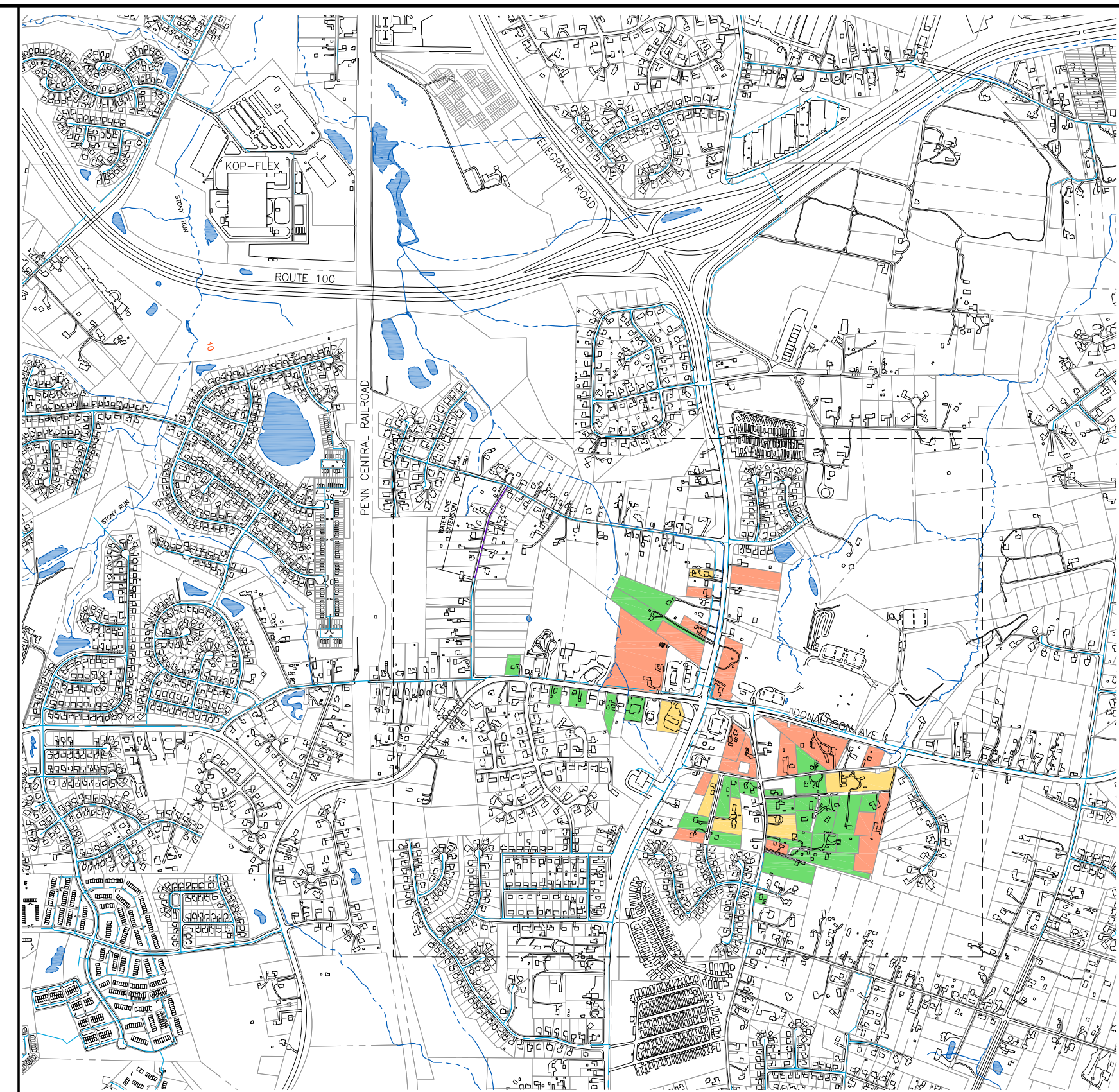
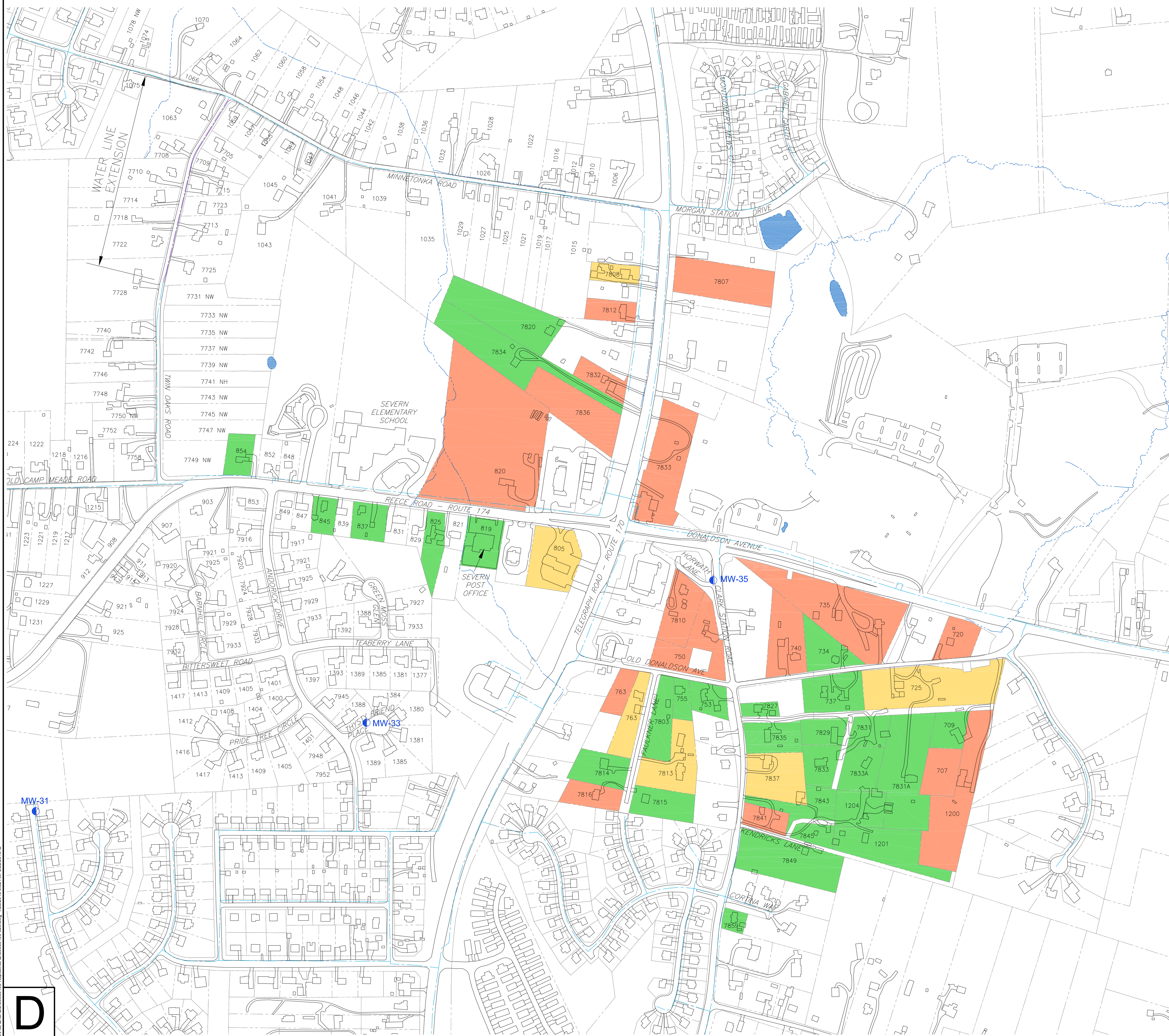
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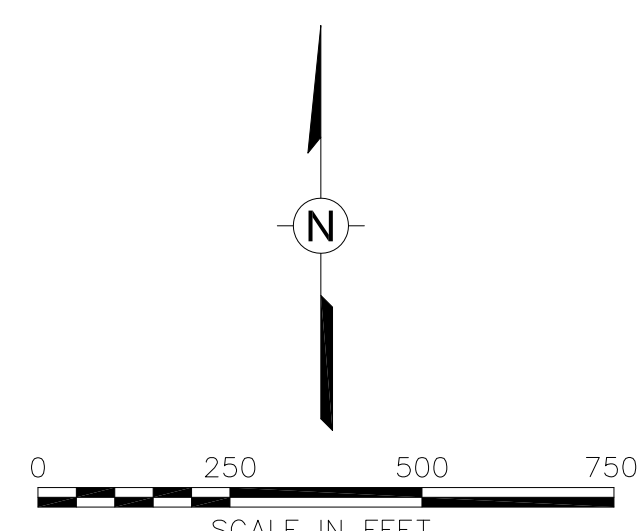
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Drawing Number
FIGURE 2



LOCATION MAP
 SCALE: 1"=1200'

- LEGEND**
- PROPERTY LINE
 - WATER MAIN
 - WATER MAIN EXTENSION
 - STREAM
 - WATER BODY
 - DEEP MONITORING WELL
 - STREET NUMBER (FROM PROPERTY ADDRESS)
 - 7812 NO RESIDENCE OR WELL AT ADDRESS OR REFUSED SAMPLING
 - 7834 SAMPLE COLLECTED
 - 7832 NO REPLY/NOT SAMPLED

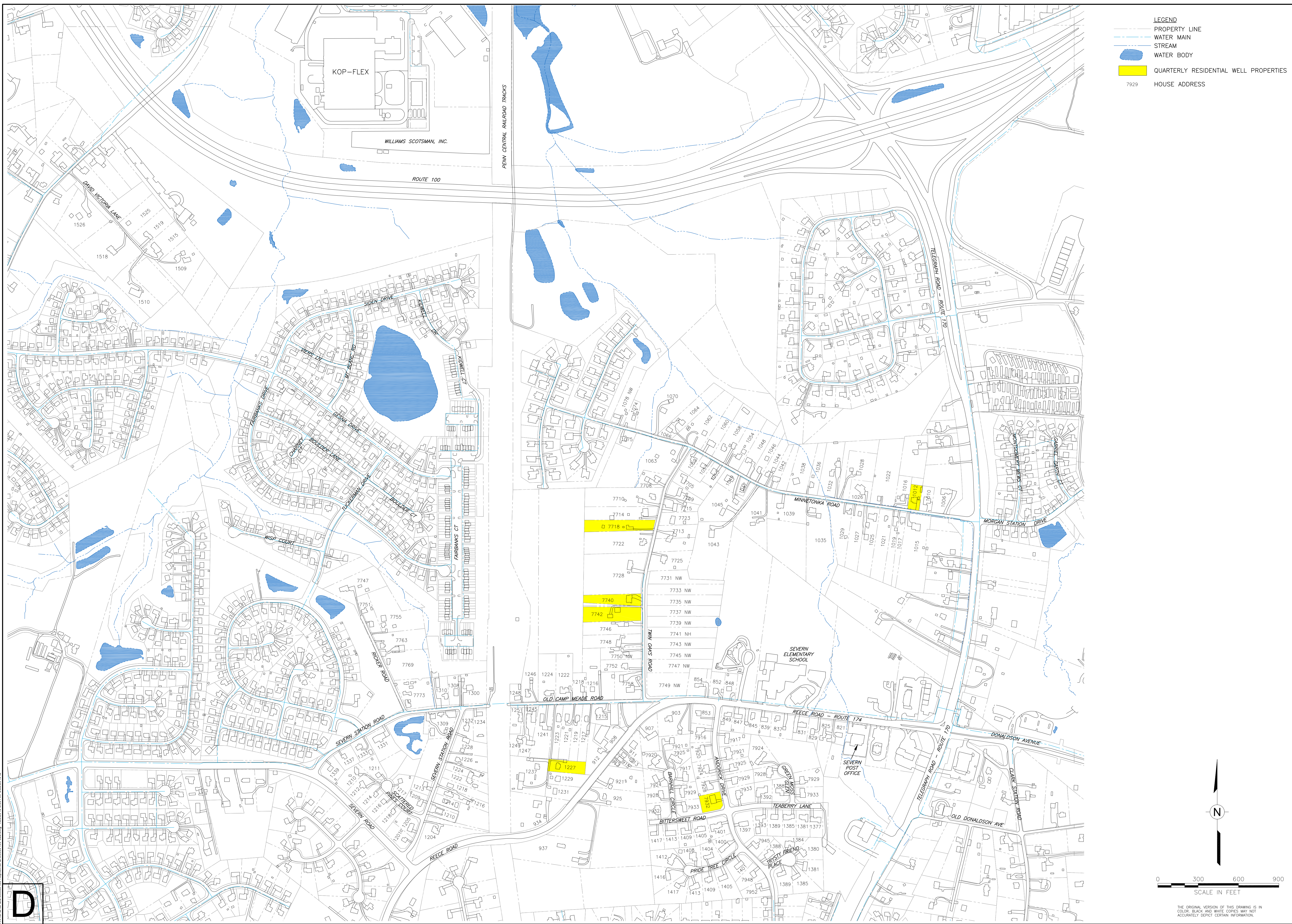


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| PHASE 3 RESIDENTIAL WELL SAMPLING LOCATIONS | | | | | | | | | | | | | | | | |
|---|--|------|-------------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>WSP WSP USA Corp. 11190 Sunrise Valley Drive, Suite 300 Reston, Virginia 20191 (703) 709-6500 www.wspgroup.com/usa</p> | <p style="text-align: center;">KOP-FLEX VCP SITE HANOVER, MARYLAND PREPARED FOR EMERSON ST. LOUIS, MISSOURI</p> | | | | | | | | | | | | | | | |
| <p>FIGURE 3 Drawing Number 00039196-029</p> | <p>SEAL</p> <p>DATE: _____</p> | | | | | | | | | | | | | | | |
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- LEGEND**
- PROPERTY LINE
 - WATER MAIN
 - STREAM
 - WATER BODY
 - QUARTERLY RESIDENTIAL WELL PROPERTIES
 - HOUSE ADDRESS

| REV | REVISIONS | DESCRIPTION |
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QUARTERLY SAMPLED RESIDENTIAL WELL LOCATIONS

KOP-FLEX VCP SITE

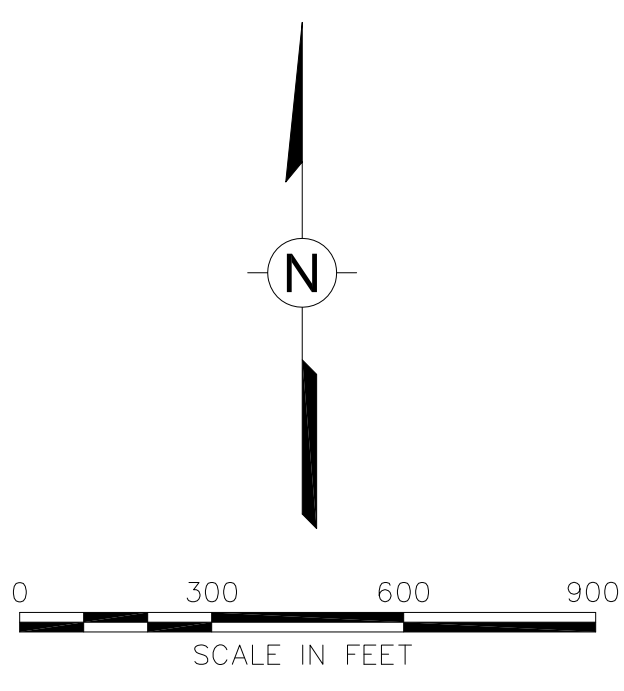
HANOVER, MARYLAND

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FIGURE 4

Drawing Number
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Tables

Table 1

Summary of Off-Property Monitoring Well Sample Results
 March 2015 Sampling Event
 Former Kop-Flex Facility
 Hanover, Maryland

| <u>Analyte (b)</u> | <u>Groundwater Quality Criteria (ug/L)</u> | <u>MW-25-40</u> <u>3/19/2015</u> | <u>MW-25-130</u> <u>3/19/2015</u> | <u>MW-25-190</u> <u>3/19/2015</u> | <u>MW-28-45</u> <u>3/17/2015</u> | <u>MW-28-210</u> <u>3/17/2015</u> | <u>MW-31-280</u> <u>3/17/2015</u> | <u>MW-33-235</u> <u>3/18/2015</u> | <u>MW-33-295</u> <u>3/18/2015</u> | <u>MW-35-298</u> <u>3/18/2015</u> |
|-----------------------|--|-------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| 1,1,1-Trichloroethane | 200 | 1 U | 43.5 | 13.7 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| 1,1-Dichloroethane | 90 | 1 U | 38.6 | 11.7 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| 1,1-Dichloroethene | 7 | 1 U | 854 | 53 | 1 U | 10.8 | 1 U | 1 U | 4.8 | 1 U |
| 1,2-Dichloroethane | 5 | 1 U | 10.8 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Trichloroethene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| 1,4-Dioxane | 6.7 | 2 U | 446 | 49.4 | 2 U | 6 | 2 U | 2 U | 8 | 2 U |
| Tetrachloroethene | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

a/ U = not detected at a concentration above the method detection limit

Bolded number indicates concentration above the groundwater quality criteria

b/ All concentrations in micrograms per liter (µg/l)

c/ Groundwater Quality Criteria sources:

RSLs: [http://www.mde.maryland.gov/assets/document/Final%20Update%20No%202.1%20dated%205-20-08\(1\).pdf](http://www.mde.maryland.gov/assets/document/Final%20Update%20No%202.1%20dated%205-20-08(1).pdf)

Table 2

**Summary of COCs Detected in Off-Property Groundwater Samples
Former Kop-Flex Facility
Hanover, Maryland (a)**

| Monitoring Well | Chloroform | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,4-Dioxane | Methylene Chloride | Methyl-tert-butyl Ether | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Total VOCs |
|------------------|------------|--------------------|--------------------|--------------------|------------------------|--------------------------|-------------|--------------------|-------------------------|-------------------|---------|-----------------------|-----------------------|-----------------|------------|
| MW-25-40 | | | | | | | | | | | | | | | |
| Sep-14 | ND | ND | ND | ND | ND | ND | ND | ND | 1.1 | ND | ND | ND | ND | ND | 1 |
| Dec-14 | ND | ND | ND | ND | ND | ND | ND | ND | 1.5 | ND | ND | ND | ND | ND | 2 |
| Mar-15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0 |
| MW-25-130 | | | | | | | | | | | | | | | |
| Sep-14 | 1.5 | 47.0 | 12.30 | 1,140.0 | 6.1 | ND | 492.0 | ND | ND | 1.1 | ND | 64.2 | 2.0 | 11.2 | 1,777 |
| Dec-14 (c) | ND | 31.4 | ND | 799.0 | ND | ND | 349.0 | 25.5 | ND | ND | ND (d) | 33.4 | ND | ND | 1,238 |
| Mar-15 (c) | ND | 38.6 | 10.8 | 854.0 | ND | ND | 446.0 | 66.8 | ND | ND | ND | 43.5 | ND | ND | 1,460 |
| MW-25-190 | | | | | | | | | | | | | | | |
| Sep-14 | ND | 10.8 | ND | 52.2 | ND | ND | 65.1 | ND | ND | ND | ND | 14.0 | ND | ND | 142 |
| Dec-14 | ND | 13.3 | ND | 58.2 | ND | ND | 45.9 | ND | ND | ND | ND | 15.6 | ND | ND | 133 |
| Mar-15 | ND | 11.7 | ND | 53.0 | ND | ND | 49.4 | ND | ND | ND | ND | 13.7 | ND | ND | 128 |
| MW-28-45 | | | | | | | | | | | | | | | |
| Sep-15 | ND | ND | ND | ND | ND | ND | 6.5 | ND | ND | ND | ND | ND | ND | ND | 7 |
| Dec-14 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0 |
| Mar-15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0 |
| MW-28-210 | | | | | | | | | | | | | | | |
| Sep-14 | ND | ND | ND | 6.8 | ND | ND | 5.1 | ND | ND | ND | ND | ND | ND | ND | 12 |
| Dec-14 | ND | ND | ND | 9.4 | ND | ND | 4.1 | ND | ND | ND | ND | ND | ND | ND | 14 |
| Mar-15 | ND | ND | ND | 10.8 | ND | ND | 6.0 | ND | ND | ND | ND | ND | ND | ND | 17 |
| MW-31-280 | | | | | | | | | | | | | | | |
| Sep-14 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0 |
| Dec-14 | ND | ND | ND | ND | ND | ND | 2.4 | ND | ND | ND | ND | ND | ND | ND | 2 |
| Mar-15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0 |
| MW-33-235 | | | | | | | | | | | | | | | |
| Sep-14 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0 |
| Dec-14 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0 |
| Mar-15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0 |
| MW-33-295 | | | | | | | | | | | | | | | |
| Sep-14 | ND | ND | ND | 3.3 | ND | ND | 7.2 | ND | ND | ND | ND | ND | ND | ND | 11 |
| Dec-14 | ND | ND | ND | 3.5 | ND | ND | 7.1 | ND | ND | ND | ND | ND | ND | ND | 11 |
| Mar-15 | ND | ND | ND | 4.8 | ND | ND | 8.0 | ND | ND | ND | ND | ND | ND | ND | 13 |
| MW-35-298 | | | | | | | | | | | | | | | |
| Sep-14 | ND | ND | ND | ND | ND | ND | 36.7 | ND | ND | ND | ND | ND | ND | ND | 37 |
| Dec-14 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0 |
| Mar-15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0 |

a/ all samples measured in ppb (ug/L);
all samples collected using low-flow purging techniques

NA = not analyzed

ND = not detected

b/sample run at 20x dilution

c/ sample run at a 10x dilution

d/sample run at 2.5x dilution

Table 3

Phase 3 Residential Well Sampling
 Analytical Results Summary Table, December 2014 - March 2015
 Kop-Flex Inc.
 Hanover, Maryland

| | Sample ID: RW-7815-FN-121014 | RW-7815-FN-121014F | RW-7831A-CS-121014 | RW-7833A-CS-121014 | RW-753-DNS-121214 | RW-819-REE-121214 | RW-845-REE-121214 | RW-7834TEL-121814 | RW-7834TEL-121814F |
|--------------------------|------------------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | Sample Type: Pre-Treatment | Post Treatment | Pre-Treatment | Pre-Treatment | Pre-Treatment | Pre-Treatment | Pre-Treatment | Pre-Treatment | Post Treatment |
| | Sample Date: 12/10/2014 | 12/10/2014 | 12/10/2014 | 12/10/2014 | 12/12/2014 | 12/12/2014 | 12/12/2014 | 12/18/2014 | 12/18/2014 |
| <u>Parameters (ug/L)</u> | <u>MCL</u> | | | | | | | | |
| Benzene | 5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Chloroform | 80 (a) | 0.50 U | 0.50 U | 0.17 J | 0.50 U | 0.26 J | 0.50 U | 0.50 U | 0.50 U |
| 1,1-Dichloroethane | 90 (a) | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,1-Dichloroethylene | 7 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Methyl Tert Butyl Ether | 20 (a) | 0.50 | 0.46 J | 1.2 | 0.50 U | 1.1 | 0.50 U | 1.7 | 0.50 U |
| Styrene | 100 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.17 J |
| 1,1,1-Trichloroethane | 200 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Tetrachloroethylene | 5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Trichloroethylene | 5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,4-Dioxane | 6.7 (b) | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |

(a) Maryland Department of Environment Action Level
 (b) Maryland Risk Based Level

Notes:
 MCL - US Environmental Protection Agency (EPA)
 Maximum Contaminant Level
 U - Undetected, value reported is quantification limit

Table 3

Phase 3 Residential Well Sampling
 Analytical Results Summary Table, December 2014 - March 2015
 Kop-Flex Inc.
 Hanover, Maryland

| | Sample ID: RW-7835CS-121814 | RW-7849CS-121714 | RW-837REE-121714 | RW-837REE-121714F | RW-7090DA-122214 | RW-7820TELE-123014 | RW-7827CS-123014 | RW-7833CS-11915 | RW-100CS-11915 |
|--------------------------|-----------------------------|------------------|------------------|-------------------|------------------|--------------------|------------------|-----------------|----------------|
| | Sample Type: Pre-Treatment | Pre-Treatment | Pre-Treatment | Post Treatment | Pre-Treatment | Pre-Treatment | Pre-Treatment | Pre-Treatment | Pre-Treatment |
| | Sample Date: 12/18/2014 | 12/17/2014 | 12/17/2014 | 12/17/2014 | 12/22/2014 | 12/30/2014 | 12/30/2014 | 1/19/2015 | 1/19/2015 |
| <u>Parameters (ug/L)</u> | <u>MCL</u> | | | | | | | | |
| Benzene | 5 | 0.18 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Chloroform | 80 (a) | 0.11 J | 0.19 J | 0.50 U | 0.50 U | 0.19 J | 0.14 J | 0.50 U | 0.11 J |
| 1,1-Dichloroethane | 90 (a) | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,1-Dichloroethylene | 7 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Methyl Tert Butyl Ether | 20 (a) | 4.7 | 0.37 J | 0.80 | 0.83 | 0.30 J | 0.34 J | 1.4 | 1.5 |
| Styrene | 100 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,1,1-Trichloroethane | 200 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Tetrachloroethylene | 5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Trichloroethylene | 5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,4-Dioxane | 6.7 (b) | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |

(a) Maryland Department of Environment Action Level
 (b) Maryland Risk Based Level

Notes:
 MCL - US Environmental Protection Agency (EPA)
 Maximum Contaminant Level
 U - Undetected, value reported is quantification limit

Table 3

Phase 3 Residential Well Sampling
 Analytical Results Summary Table, December 2014 - March 2015
 Kop-Flex Inc.
 Hanover, Maryland

| | Sample ID: | RW-7814FN 11915 | RW-737DNS 11915 | RW-7803FN 12315 | RW-7843CS 12315 | RW-7831CS 12315 | RW-7831CS 12315 | RW-1201KL 012915F | RW-1201KL 12915 | RW-1204KL 012915F |
|--------------------------|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|--------------------|----------------------|
| | Sample Type: | Pre-Treatment | Pre-Treatment | Pre-Treatment | Pre-Treatment | Pre-Treatment | Pre-Treatment | Post-Treatment | Pre-Treatment | Post-Treatment |
| | Sample Date: | 1/16/2015 | 1/19/2015 | 1/23/2015 | 1/23/2015 | 1/23/2015 | 1/23/2015 | 1/29/2015 | 1/29/2015 | 1/29/2015 |
| <u>Parameters (ug/L)</u> | <u>MCL</u> | | | | | | | | | |
| Benzene | 5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Chloroform | 80 (a) | 0.13 J | 0.18 J | 0.50 U | 0.50 U | 0.39 J | 0.42 J | 0.15 J | 0.15 J | 0.31 J |
| 1,1-Dichloroethane | 90 (a) | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,1-Dichloroethylene | 7 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Methyl Tert Butyl Ether | 20 (a) | 0.50 U | 0.43 J | 2.0 | 0.50 U | 0.66 | 0.67 | 3.7 | 4.20 | 1.20 |
| Styrene | 100 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,1,1-Trichloroethane | 200 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Tetrachloroethylene | 5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Trichloroethylene | 5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,4-Dioxane | 6.7 (b) | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |

(a) Maryland Department of Environment Action Level
 (b) Maryland Risk Based Level

Notes:
 MCL - US Environmental Protection Agency (EPA)
 Maximum Contaminant Level
 U - Undetected, value reported is quantification limit

Table 3

Phase 3 Residential Well Sampling
 Analytical Results Summary Table, December 2014 - March 2015
 Kop-Flex Inc.
 Hanover, Maryland

| | Sample ID: | RW-825REE 12915 | RW-7859CS 20515 | RW-7847CS 21015 | RW-734DNS 021015F | RW-734DNS 21015 | RW-824REE 21115 | RW-7845CS 21115 | RW-7550DA 31915 |
|--------------------------|--------------|--------------------|--------------------|--------------------|----------------------|--------------------|--------------------|--------------------|--------------------|
| | Sample Type: | Pre-Treatment | Pre-Treatment | Pre-Treatment | Post-Treatment | Pre-Treatment | Pre-Treatment | Pre-Treatment | Pre-Treatment |
| | Sample Date: | 1/29/2015 | 2/5/2015 | 2/10/2015 | 2/10/2015 | 2/10/2015 | 2/11/2015 | 2/11/2015 | 3/19/2015 |
| <u>Parameters (ug/L)</u> | <u>MCL</u> | | | | | | | | |
| Benzene | 5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Chloroform | 80 (a) | 0.21 J | 0.47 J | 0.13 J | 0.62 | 0.62 | 0.22 J | 0.19 J | 0.14 J |
| 1,1-Dichloroethane | 90 (a) | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.77 | 0.50 U | 0.50 U |
| 1,1-Dichloroethylene | 7 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Methyl Tert Butyl Ether | 20 (a) | 0.27 J | 1.1 | 1.7 | 0.84 | 0.84 | 1.7 | 1 | 0.96 |
| Styrene | 100 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,1,1-Trichloroethane | 200 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Tetrachloroethylene | 5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Trichloroethylene | 5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,4-Dioxane | 6.7 (b) | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |

(a) Maryland Department of Environment Action Level

(b) Maryland Risk Based Level

Notes:

MCL - US Environmental Protection Agency (EPA)
 Maximum Contaminant Level

U - Undetected, value reported is quantification limit

Enclosure A – Laboratory Report for March 2015 Offsite Monitoring Well Samples

April 21, 2015

Eric Johnson
WSP Environmental Strategies
11190 Sunrise Valley Dr.
Suite #300
Reston, VA 20191

RE: Project: Kop-Flex 39196.25
Pace Project No.: 92242145

Dear Eric Johnson:

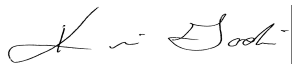
Enclosed are the analytical results for sample(s) received by the laboratory on March 20, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

Report revised 4/21/15 to include re-run results for MW-33-235.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Keith Green, WSP Environmental Strategies



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Kop-Flex 39196.25
Pace Project No.: 92242145

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|---------------------|----------------|----------|-------------------|------------|
| 92242145001 | MW-28-45 | EPA 8260 | CAH | 64 | PASI-C |
| | | EPA 8260B Mod. | DLK | 3 | PASI-C |
| 92242145002 | MW-28-210 | EPA 8260 | CAH | 64 | PASI-C |
| | | EPA 8260B Mod. | DLK | 3 | PASI-C |
| 92242145003 | MW-100 | EPA 8260 | CAH | 64 | PASI-C |
| | | EPA 8260B Mod. | DLK | 3 | PASI-C |
| 92242145004 | MW-31-280 | EPA 8260 | CAH | 64 | PASI-C |
| | | EPA 8260B Mod. | DLK | 3 | PASI-C |
| 92242145005 | MW-33-235 | EPA 8260 | CAH | 64 | PASI-C |
| | | EPA 8260B Mod. | DLK | 3 | PASI-C |
| 92242145006 | MW-33-295 | EPA 8260 | CAH | 64 | PASI-C |
| | | EPA 8260B Mod. | DLK | 3 | PASI-C |
| 92242145007 | MW-35-298 | EPA 8260 | CAH | 64 | PASI-C |
| | | EPA 8260B Mod. | DLK | 3 | PASI-C |
| 92242145008 | MW-25-40 | EPA 8260 | CAH | 64 | PASI-C |
| | | EPA 8260B Mod. | DLK | 3 | PASI-C |
| 92242145009 | MW-25-130 | EPA 8260 | CAH | 64 | PASI-C |
| | | EPA 8260B Mod. | DLK | 3 | PASI-C |
| 92242145010 | MW-25-190 | EPA 8260 | CAH | 64 | PASI-C |
| | | EPA 8260B Mod. | DLK | 3 | PASI-C |
| 92242145011 | EB-031915 | EPA 8260 | CAH | 64 | PASI-C |
| | | EPA 8260B Mod. | DLK | 3 | PASI-C |
| 92242145012 | TRIP BLANK 1 | EPA 8260 | CAH | 64 | PASI-C |
| 92242145013 | TRIP BLANK 2 | EPA 8260 | CAH | 64 | PASI-C |
| 92242145014 | MW-33-235 Re-run #1 | EPA 8260 | GAW | 64 | PASI-C |
| 92242145015 | MW-33-235 Re-run #2 | EPA 8260 | GAW | 64 | PASI-C |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-28-45 | | Lab ID: 92242145001 | Collected: 03/17/15 11:40 | Received: 03/20/15 09:45 | Matrix: Water | | | |
|-----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 03/28/15 03:37 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 03/28/15 03:37 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 03/28/15 03:37 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 03/28/15 03:37 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 03/28/15 03:37 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 03/28/15 03:37 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 03/28/15 03:37 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 03/28/15 03:37 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 630-20-6 | |
| 1,1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-28-45 | Lab ID: 92242145001 | Collected: 03/17/15 11:40 | | Received: 03/20/15 09:45 | | Matrix: Water | | |
|---------------------------|---------------------|-----------------------------------|--------------|--------------------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 03/28/15 03:37 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 03/28/15 03:37 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 03/28/15 03:37 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:37 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | 1 | | 03/28/15 03:37 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 102 | % | 70-130 | 1 | | 03/28/15 03:37 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-130 | 1 | | 03/28/15 03:37 | 2037-26-5 | |
| 8260 MSV SIM | | Analytical Method: EPA 8260B Mod. | | | | | | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 2.0 | 1 | | 03/25/15 15:04 | 123-91-1 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 112 | % | 50-150 | 1 | | 03/25/15 15:04 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 50-150 | 1 | | 03/25/15 15:04 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-28-210 | Lab ID: 92242145002 | Collected: 03/17/15 13:20 | Received: 03/20/15 09:45 | Matrix: Water | | | | |
|-----------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 03/28/15 03:53 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 03/28/15 03:53 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 03/28/15 03:53 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 03/28/15 03:53 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 107-06-2 | |
| 1,1-Dichloroethene | 10.6 | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 03/28/15 03:53 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 03/28/15 03:53 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 03/28/15 03:53 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 03/28/15 03:53 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 630-20-6 | |
| 1,1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-28-210 | | Lab ID: 92242145002 | | Collected: 03/17/15 13:20 | | Received: 03/20/15 09:45 | | Matrix: Water | |
|---------------------------|---------|-----------------------------------|--------------|---------------------------|----------|--------------------------|-------------|---------------|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 127-18-4 | | |
| Toluene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 108-88-3 | | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 87-61-6 | | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 120-82-1 | | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 71-55-6 | | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 79-00-5 | | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 79-01-6 | | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 75-69-4 | | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 96-18-4 | | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 03/28/15 03:53 | 108-05-4 | | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 75-01-4 | | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 03/28/15 03:53 | 1330-20-7 | | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 03/28/15 03:53 | 179601-23-1 | | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 03/28/15 03:53 | 95-47-6 | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | 03/28/15 03:53 | 460-00-4 | | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 03/28/15 03:53 | 17060-07-0 | | |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | 03/28/15 03:53 | 2037-26-5 | | |
| 8260 MSV SIM | | Analytical Method: EPA 8260B Mod. | | | | | | | |
| 1,4-Dioxane (p-Dioxane) | 5.0 | ug/L | 2.0 | 1 | | 03/25/15 15:24 | 123-91-1 | | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 113 | % | 50-150 | 1 | | 03/25/15 15:24 | 17060-07-0 | | |
| Toluene-d8 (S) | 102 | % | 50-150 | 1 | | 03/25/15 15:24 | 2037-26-5 | | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-100 | | Lab ID: 92242145003 | Collected: 03/17/15 12:00 | Received: 03/20/15 09:45 | Matrix: Water | | | |
|-----------------------------|-------------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 03/28/15 04:10 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 03/28/15 04:10 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 03/28/15 04:10 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 03/28/15 04:10 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 107-06-2 | |
| 1,1-Dichloroethene | 10.5 | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 03/28/15 04:10 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 03/28/15 04:10 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 03/28/15 04:10 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 03/28/15 04:10 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 630-20-6 | |
| 1,1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-100 | | Lab ID: 92242145003 | | Collected: 03/17/15 12:00 | | Received: 03/20/15 09:45 | | Matrix: Water | |
|---------------------------|---------|-----------------------------------|--------------|---------------------------|----------|--------------------------|-------------|---------------|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 127-18-4 | | |
| Toluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 108-88-3 | | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 87-61-6 | | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 120-82-1 | | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 71-55-6 | | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 79-00-5 | | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 79-01-6 | | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 75-69-4 | | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 96-18-4 | | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 03/28/15 04:10 | 108-05-4 | | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 75-01-4 | | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 03/28/15 04:10 | 1330-20-7 | | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 03/28/15 04:10 | 179601-23-1 | | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:10 | 95-47-6 | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 03/28/15 04:10 | 460-00-4 | | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 03/28/15 04:10 | 17060-07-0 | | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 03/28/15 04:10 | 2037-26-5 | | |
| 8260 MSV SIM | | Analytical Method: EPA 8260B Mod. | | | | | | | |
| 1,4-Dioxane (p-Dioxane) | 5.8 | ug/L | 2.0 | 1 | | 03/25/15 16:25 | 123-91-1 | | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 115 | % | 50-150 | 1 | | 03/25/15 16:25 | 17060-07-0 | | |
| Toluene-d8 (S) | 101 | % | 50-150 | 1 | | 03/25/15 16:25 | 2037-26-5 | | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-31-280 | Lab ID: 92242145004 | Collected: 03/17/15 15:54 | Received: 03/20/15 09:45 | Matrix: Water | | | | |
|-----------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 03/28/15 04:26 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 03/28/15 04:26 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 03/28/15 04:26 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 03/28/15 04:26 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 03/28/15 04:26 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 03/28/15 04:26 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 03/28/15 04:26 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 03/28/15 04:26 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 630-20-6 | |
| 1,1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-31-280 | Lab ID: 92242145004 | Collected: 03/17/15 15:54 | Received: 03/20/15 09:45 | Matrix: Water | | | | |
|---------------------------|---------------------|-----------------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 03/28/15 04:26 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 03/28/15 04:26 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 03/28/15 04:26 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:26 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 03/28/15 04:26 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 03/28/15 04:26 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 03/28/15 04:26 | 2037-26-5 | |
| 8260 MSV SIM | | Analytical Method: EPA 8260B Mod. | | | | | | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 2.0 | 1 | | 03/25/15 16:46 | 123-91-1 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 114 | % | 50-150 | 1 | | 03/25/15 16:46 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 50-150 | 1 | | 03/25/15 16:46 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-33-235 | | Lab ID: 92242145005 | Collected: 03/18/15 11:00 | Received: 03/20/15 09:45 | Matrix: Water | | | |
|-----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 03/28/15 04:43 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 03/28/15 04:43 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 03/28/15 04:43 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 03/28/15 04:43 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | 347 | ug/L | 150 | 1 | | 03/28/15 04:43 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 03/28/15 04:43 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 03/28/15 04:43 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 03/28/15 04:43 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 630-20-6 | |
| 1,1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-33-235 | | Lab ID: 92242145005 | | Collected: 03/18/15 11:00 | | Received: 03/20/15 09:45 | | Matrix: Water | |
|---------------------------|---------|-----------------------------------|--------------|---------------------------|----------|--------------------------|-------------|---------------|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 127-18-4 | | |
| Toluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 108-88-3 | | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 87-61-6 | | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 120-82-1 | | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 71-55-6 | | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 79-00-5 | | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 79-01-6 | | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 75-69-4 | | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 96-18-4 | | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 03/28/15 04:43 | 108-05-4 | | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 75-01-4 | | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 03/28/15 04:43 | 1330-20-7 | | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 03/28/15 04:43 | 179601-23-1 | | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:43 | 95-47-6 | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | 03/28/15 04:43 | 460-00-4 | | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 03/28/15 04:43 | 17060-07-0 | | |
| Toluene-d8 (S) | 101 | % | 70-130 | 1 | | 03/28/15 04:43 | 2037-26-5 | | |
| 8260 MSV SIM | | Analytical Method: EPA 8260B Mod. | | | | | | | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 2.0 | 1 | | 03/25/15 17:06 | 123-91-1 | | |
| Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 115 | % | 50-150 | 1 | | 03/25/15 17:06 | 17060-07-0 | | |
| Toluene-d8 (S) | 100 | % | 50-150 | 1 | | 03/25/15 17:06 | 2037-26-5 | | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25
Pace Project No.: 92242145

| Sample: MW-33-295 | | Lab ID: 92242145006 | | Collected: 03/18/15 13:25 | Received: 03/20/15 09:45 | Matrix: Water | | |
|-----------------------------|------------|-----------------------------|--------------|---------------------------|--------------------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 03/28/15 04:59 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 03/28/15 04:59 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 03/28/15 04:59 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 03/28/15 04:59 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 107-06-2 | |
| 1,1-Dichloroethene | 4.6 | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 03/28/15 04:59 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 03/28/15 04:59 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 03/28/15 04:59 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 03/28/15 04:59 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-33-295 | Lab ID: 92242145006 | Collected: 03/18/15 13:25 | Received: 03/20/15 09:45 | Matrix: Water | | | | |
|---------------------------|---------------------|-----------------------------------|--------------------------|---------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 03/28/15 04:59 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 03/28/15 04:59 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 03/28/15 04:59 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 03/28/15 04:59 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | 03/28/15 04:59 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 105 | % | 70-130 | 1 | | 03/28/15 04:59 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 03/28/15 04:59 | 2037-26-5 | |
| 8260 MSV SIM | | Analytical Method: EPA 8260B Mod. | | | | | | |
| 1,4-Dioxane (p-Dioxane) | 8.0 | ug/L | 2.0 | 1 | | 03/25/15 17:26 | 123-91-1 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 116 | % | 50-150 | 1 | | 03/25/15 17:26 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 50-150 | 1 | | 03/25/15 17:26 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-35-298 | Lab ID: 92242145007 | Collected: 03/18/15 17:00 | Received: 03/20/15 09:45 | Matrix: Water | | | | |
|-----------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 03/28/15 05:16 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 03/28/15 05:16 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 03/28/15 05:16 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 03/28/15 05:16 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 03/28/15 05:16 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 03/28/15 05:16 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 03/28/15 05:16 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 03/28/15 05:16 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-35-298 | Lab ID: 92242145007 | Collected: 03/18/15 17:00 | | Received: 03/20/15 09:45 | | Matrix: Water | | |
|---------------------------|----------------------------|-----------------------------------|--------------|--------------------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 03/28/15 05:16 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 03/28/15 05:16 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 03/28/15 05:16 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:16 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | 03/28/15 05:16 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 102 | % | 70-130 | 1 | | 03/28/15 05:16 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | 1 | | 03/28/15 05:16 | 2037-26-5 | |
| 8260 MSV SIM | | Analytical Method: EPA 8260B Mod. | | | | | | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 2.0 | 1 | | 03/25/15 17:47 | 123-91-1 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 110 | % | 50-150 | 1 | | 03/25/15 17:47 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 50-150 | 1 | | 03/25/15 17:47 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-25-40 | Lab ID: 92242145008 | Collected: 03/19/15 09:00 | Received: 03/20/15 09:45 | Matrix: Water | | | | |
|-----------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 03/28/15 05:33 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 03/28/15 05:33 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 03/28/15 05:33 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 03/28/15 05:33 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 03/28/15 05:33 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 03/28/15 05:33 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 03/28/15 05:33 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 03/28/15 05:33 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 630-20-6 | |
| 1,1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25
Pace Project No.: 92242145

| Sample: MW-25-40 | | Lab ID: 92242145008 | | Collected: 03/19/15 09:00 | Received: 03/20/15 09:45 | Matrix: Water | | |
|---------------------------|---------|-----------------------------------|--------------|---------------------------|--------------------------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 03/28/15 05:33 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 03/28/15 05:33 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 03/28/15 05:33 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:33 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 03/28/15 05:33 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 102 | % | 70-130 | 1 | | 03/28/15 05:33 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 03/28/15 05:33 | 2037-26-5 | |
| 8260 MSV SIM | | Analytical Method: EPA 8260B Mod. | | | | | | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 2.0 | 1 | | 03/25/15 18:07 | 123-91-1 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 113 | % | 50-150 | 1 | | 03/25/15 18:07 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 50-150 | 1 | | 03/25/15 18:07 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-25-130 | | Lab ID: 92242145009 | Collected: 03/19/15 17:15 | Received: 03/20/15 09:45 | Matrix: Water | | | |
|-----------------------------|-------------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 250 | 10 | | 03/28/15 09:41 | 67-64-1 | |
| Benzene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 75-27-4 | |
| Bromoform | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 75-25-2 | |
| Bromomethane | ND | ug/L | 20.0 | 10 | | 03/28/15 09:41 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 50.0 | 10 | | 03/28/15 09:41 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 108-90-7 | |
| Chloroethane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 75-00-3 | |
| Chloroform | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 67-66-3 | |
| Chloromethane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 20.0 | 10 | | 03/28/15 09:41 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 75-71-8 | |
| 1,1-Dichloroethane | 38.6 | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 75-34-3 | |
| 1,2-Dichloroethane | 10.8 | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 107-06-2 | |
| 1,1-Dichloroethene | 854 | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 1500 | 10 | | 03/28/15 09:41 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 50.0 | 10 | | 03/28/15 09:41 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 99-87-6 | |
| Methylene Chloride | 66.8 | ug/L | 20.0 | 10 | | 03/28/15 09:41 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 50.0 | 10 | | 03/28/15 09:41 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 91-20-3 | |
| Styrene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 630-20-6 | |
| 1,1,1,2,2-Tetrachloroethane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-25-130 | Lab ID: 92242145009 | Collected: 03/19/15 17:15 | | Received: 03/20/15 09:45 | | Matrix: Water | | |
|---------------------------|---------------------|-----------------------------------|--------------|--------------------------|----------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Tetrachloroethene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 127-18-4 | |
| Toluene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 120-82-1 | |
| 1,1,1-Trichloroethane | 43.5 | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 20.0 | 10 | | 03/28/15 09:41 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 20.0 | 10 | | 03/28/15 09:41 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 20.0 | 10 | | 03/28/15 09:41 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 10.0 | 10 | | 03/28/15 09:41 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | 10 | | 03/28/15 09:41 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 10 | | 03/28/15 09:41 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 10 | | 03/28/15 09:41 | 2037-26-5 | |
| 8260 MSV SIM | | Analytical Method: EPA 8260B Mod. | | | | | | |
| 1,4-Dioxane (p-Dioxane) | 446 | ug/L | 20.0 | 10 | | 03/25/15 18:27 | 123-91-1 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 115 | % | 50-150 | 10 | | 03/25/15 18:27 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 50-150 | 10 | | 03/25/15 18:27 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-25-190 | | Lab ID: 92242145010 | | Collected: 03/19/15 15:15 | Received: 03/20/15 09:45 | Matrix: Water | | |
|-----------------------------|---------|-----------------------------|--------------|---------------------------|--------------------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 03/28/15 07:12 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 03/28/15 07:12 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 03/28/15 07:12 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 03/28/15 07:12 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 75-71-8 | |
| 1,1-Dichloroethane | 11.7 | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 107-06-2 | |
| 1,1-Dichloroethene | 53.0 | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 03/28/15 07:12 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 03/28/15 07:12 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 03/28/15 07:12 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 03/28/15 07:12 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-25-190 | | Lab ID: 92242145010 | | Collected: 03/19/15 15:15 | Received: 03/20/15 09:45 | Matrix: Water | | |
|---------------------------|-------------|-----------------------------------|--------------|---------------------------|--------------------------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 120-82-1 | |
| 1,1,1-Trichloroethane | 13.7 | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 03/28/15 07:12 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 03/28/15 07:12 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 03/28/15 07:12 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 03/28/15 07:12 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | 1 | | 03/28/15 07:12 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 104 | % | 70-130 | 1 | | 03/28/15 07:12 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | 1 | | 03/28/15 07:12 | 2037-26-5 | |
| 8260 MSV SIM | | Analytical Method: EPA 8260B Mod. | | | | | | |
| 1,4-Dioxane (p-Dioxane) | 49.4 | ug/L | 2.0 | 1 | | 03/25/15 18:48 | 123-91-1 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 116 | % | 50-150 | 1 | | 03/25/15 18:48 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 50-150 | 1 | | 03/25/15 18:48 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: EB-031915 | | Lab ID: 92242145011 | Collected: 03/19/15 14:30 | Received: 03/20/15 09:45 | Matrix: Water | | | |
|-----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 03/27/15 17:59 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 03/27/15 17:59 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 03/27/15 17:59 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 03/27/15 17:59 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 03/27/15 17:59 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 03/27/15 17:59 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 03/27/15 17:59 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 03/27/15 17:59 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: EB-031915 | | Lab ID: 92242145011 | | Collected: 03/19/15 14:30 | Received: 03/20/15 09:45 | Matrix: Water | | |
|---------------------------|------------|-----------------------------------|--------------|---------------------------|--------------------------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 03/27/15 17:59 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 03/27/15 17:59 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 03/27/15 17:59 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 03/27/15 17:59 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 1 | | 03/27/15 17:59 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 100 | % | 70-130 | 1 | | 03/27/15 17:59 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-130 | 1 | | 03/27/15 17:59 | 2037-26-5 | |
| 8260 MSV SIM | | Analytical Method: EPA 8260B Mod. | | | | | | |
| 1,4-Dioxane (p-Dioxane) | 3.2 | ug/L | 2.0 | 1 | | 03/25/15 19:08 | 123-91-1 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 116 | % | 50-150 | 1 | | 03/25/15 19:08 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 50-150 | 1 | | 03/25/15 19:08 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: TRIP BLANK 1 | | Lab ID: 92242145012 | Collected: 03/17/15 00:00 | Received: 03/20/15 09:45 | Matrix: Water | | | |
|-----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 03/27/15 18:15 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 03/27/15 18:15 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 03/27/15 18:15 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 03/27/15 18:15 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 03/27/15 18:15 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 03/27/15 18:15 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 03/27/15 18:15 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 03/27/15 18:15 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 630-20-6 | |
| 1,1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: TRIP BLANK 1 | | Lab ID: 92242145012 | Collected: 03/17/15 00:00 | Received: 03/20/15 09:45 | Matrix: Water | | | |
|---------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|-------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 03/27/15 18:15 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 03/27/15 18:15 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 03/27/15 18:15 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 03/27/15 18:15 | 95-47-6 | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | 1 | | 03/27/15 18:15 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 101 | % | 70-130 | 1 | | 03/27/15 18:15 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 03/27/15 18:15 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: TRIP BLANK 2 | | Lab ID: 92242145013 | Collected: 03/19/15 00:00 | Received: 03/20/15 09:45 | Matrix: Water | | | |
|-----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 03/28/15 05:49 | 67-64-1 | |
| Benzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 03/28/15 05:49 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 03/28/15 05:49 | 78-93-3 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 03/28/15 05:49 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 108-20-3 | |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 03/28/15 05:49 | 123-91-1 | |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 87-68-3 | |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 03/28/15 05:49 | 591-78-6 | |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 99-87-6 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 03/28/15 05:49 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 03/28/15 05:49 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 91-20-3 | |
| Styrene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25
Pace Project No.: 92242145

| Sample: TRIP BLANK 2 | | Lab ID: 92242145013 | | Collected: 03/19/15 00:00 | | Received: 03/20/15 09:45 | | Matrix: Water | |
|---------------------------|---------|-----------------------------|--------------|---------------------------|----------|--------------------------|-------------|---------------|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 127-18-4 | | |
| Toluene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 108-88-3 | | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 87-61-6 | | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 120-82-1 | | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 71-55-6 | | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 79-00-5 | | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 79-01-6 | | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 75-69-4 | | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 96-18-4 | | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 03/28/15 05:49 | 108-05-4 | | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 75-01-4 | | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 03/28/15 05:49 | 1330-20-7 | | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 03/28/15 05:49 | 179601-23-1 | | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 03/28/15 05:49 | 95-47-6 | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | 03/28/15 05:49 | 460-00-4 | | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 03/28/15 05:49 | 17060-07-0 | | |
| Toluene-d8 (S) | 101 | % | 70-130 | 1 | | 03/28/15 05:49 | 2037-26-5 | | |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-33-235 Re-run #1 | Lab ID: 92242145014 | Collected: 03/18/15 11:00 | Received: 03/20/15 09:45 | Matrix: Water | | | | |
|-----------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|-------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 04/14/15 11:19 | 67-64-1 | H1 |
| Benzene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 71-43-2 | H1 |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 108-86-1 | H1 |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 74-97-5 | H1 |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 75-27-4 | H1 |
| Bromoform | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 75-25-2 | H1 |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 04/14/15 11:19 | 74-83-9 | H1,L2 |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 04/14/15 11:19 | 78-93-3 | H1 |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 56-23-5 | H1 |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 108-90-7 | H1 |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 75-00-3 | H1 |
| Chloroform | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 67-66-3 | H1 |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 74-87-3 | H1,L2 |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 95-49-8 | H1 |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 106-43-4 | H1 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 04/14/15 11:19 | 96-12-8 | H1 |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 124-48-1 | H1 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 106-93-4 | H1 |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 74-95-3 | H1 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 95-50-1 | H1 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 541-73-1 | H1 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 106-46-7 | H1 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 75-71-8 | H1 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 75-34-3 | H1 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 107-06-2 | H1 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 75-35-4 | H1 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 156-59-2 | H1 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 156-60-5 | H1 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 78-87-5 | H1 |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 142-28-9 | H1 |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 594-20-7 | H1 |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 563-58-6 | H1 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 10061-01-5 | H1 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 10061-02-6 | H1 |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 108-20-3 | H1 |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 04/14/15 11:19 | 123-91-1 | H1 |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 100-41-4 | H1 |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 87-68-3 | H1 |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 04/14/15 11:19 | 591-78-6 | H1 |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 99-87-6 | H1 |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 04/14/15 11:19 | 75-09-2 | H1 |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 04/14/15 11:19 | 108-10-1 | H1 |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 1634-04-4 | H1 |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 91-20-3 | H1 |
| Styrene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 100-42-5 | H1 |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 630-20-6 | H1 |
| 1,1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 79-34-5 | H1 |

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-33-235 Re-run #1 | | Lab ID: 92242145014 | | Collected: 03/18/15 11:00 | | Received: 03/20/15 09:45 | | Matrix: Water | |
|-----------------------------|---------|-----------------------------|--------------|---------------------------|----------|--------------------------|-------------|---------------|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 127-18-4 | H1 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 108-88-3 | H1 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 87-61-6 | H1 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 120-82-1 | H1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 71-55-6 | H1 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 79-00-5 | H1 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 79-01-6 | H1 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 75-69-4 | H1 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 96-18-4 | H1 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 04/14/15 11:19 | 108-05-4 | H1 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 75-01-4 | H1 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 04/14/15 11:19 | 1330-20-7 | | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 04/14/15 11:19 | 179601-23-1 | H1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 04/14/15 11:19 | 95-47-6 | H1 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | 1 | | 04/14/15 11:19 | 460-00-4 | H5 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 04/14/15 11:19 | 17060-07-0 | | |
| Toluene-d8 (S) | 98 | % | 70-130 | 1 | | 04/14/15 11:19 | 2037-26-5 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-33-235 Re-run #2 | Lab ID: 92242145015 | Collected: 03/18/15 11:00 | Received: 03/20/15 09:45 | Matrix: Water | | | | |
|-----------------------------|---------------------|-----------------------------|--------------------------|---------------|----------|----------------|------------|-------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | |
| Acetone | ND | ug/L | 25.0 | 1 | | 04/15/15 05:47 | 67-64-1 | H1 |
| Benzene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 71-43-2 | H1 |
| Bromobenzene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 108-86-1 | H1 |
| Bromochloromethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 74-97-5 | H1 |
| Bromodichloromethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 75-27-4 | H1 |
| Bromoform | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 75-25-2 | H1 |
| Bromomethane | ND | ug/L | 2.0 | 1 | | 04/15/15 05:47 | 74-83-9 | H1,L2 |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 1 | | 04/15/15 05:47 | 78-93-3 | H1 |
| Carbon tetrachloride | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 56-23-5 | H1 |
| Chlorobenzene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 108-90-7 | H1 |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 75-00-3 | H1 |
| Chloroform | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 67-66-3 | H1 |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 74-87-3 | H1,L2 |
| 2-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 95-49-8 | H1 |
| 4-Chlorotoluene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 106-43-4 | H1 |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 2.0 | 1 | | 04/15/15 05:47 | 96-12-8 | H1 |
| Dibromochloromethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 124-48-1 | H1 |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 106-93-4 | H1 |
| Dibromomethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 74-95-3 | H1 |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 95-50-1 | H1 |
| 1,3-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 541-73-1 | H1 |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 106-46-7 | H1 |
| Dichlorodifluoromethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 75-71-8 | H1 |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 75-34-3 | H1 |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 107-06-2 | H1 |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 75-35-4 | H1 |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 156-59-2 | H1 |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 156-60-5 | H1 |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 78-87-5 | H1 |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 142-28-9 | H1 |
| 2,2-Dichloropropane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 594-20-7 | H1 |
| 1,1-Dichloropropene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 563-58-6 | H1 |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 10061-01-5 | H1 |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 10061-02-6 | H1 |
| Diisopropyl ether | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 108-20-3 | H1 |
| 1,4-Dioxane (p-Dioxane) | ND | ug/L | 150 | 1 | | 04/15/15 05:47 | 123-91-1 | H1 |
| Ethylbenzene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 100-41-4 | H1 |
| Hexachloro-1,3-butadiene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 87-68-3 | H1 |
| 2-Hexanone | ND | ug/L | 5.0 | 1 | | 04/15/15 05:47 | 591-78-6 | H1 |
| p-Isopropyltoluene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 99-87-6 | H1 |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 04/15/15 05:47 | 75-09-2 | H1 |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 1 | | 04/15/15 05:47 | 108-10-1 | H1 |
| Methyl-tert-butyl ether | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 1634-04-4 | H1 |
| Naphthalene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 91-20-3 | H1 |
| Styrene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 100-42-5 | H1 |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 630-20-6 | H1 |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 79-34-5 | H1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Sample: MW-33-235 Re-run #2 | | Lab ID: 92242145015 | | Collected: 03/18/15 11:00 | | Received: 03/20/15 09:45 | | Matrix: Water | |
|-----------------------------|---------|-----------------------------|--------------|---------------------------|----------|--------------------------|-------------|---------------|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | |
| 8260 MSV Low Level | | Analytical Method: EPA 8260 | | | | | | | |
| Tetrachloroethene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 127-18-4 | H1 | |
| Toluene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 108-88-3 | H1 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 87-61-6 | H1 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 120-82-1 | H1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 71-55-6 | H1 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 79-00-5 | H1 | |
| Trichloroethene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 79-01-6 | H1 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 75-69-4 | H1 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 96-18-4 | H1 | |
| Vinyl acetate | ND | ug/L | 2.0 | 1 | | 04/15/15 05:47 | 108-05-4 | H1 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 75-01-4 | H1 | |
| Xylene (Total) | ND | ug/L | 2.0 | 1 | | 04/15/15 05:47 | 1330-20-7 | | |
| m&p-Xylene | ND | ug/L | 2.0 | 1 | | 04/15/15 05:47 | 179601-23-1 | H1 | |
| o-Xylene | ND | ug/L | 1.0 | 1 | | 04/15/15 05:47 | 95-47-6 | H1 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 102 | % | 70-130 | 1 | | 04/15/15 05:47 | 460-00-4 | H5 | |
| 1,2-Dichloroethane-d4 (S) | 104 | % | 70-130 | 1 | | 04/15/15 05:47 | 17060-07-0 | | |
| Toluene-d8 (S) | 97 | % | 70-130 | 1 | | 04/15/15 05:47 | 2037-26-5 | | |

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

QC Batch: MSV/30916

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92242145011, 92242145012

METHOD BLANK: 1420365

Matrix: Water

Associated Lab Samples: 92242145011, 92242145012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,1-Dichloroethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,1-Dichloroethene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,1-Dichloropropene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,2,3-Trichloropropane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 2.0 | 03/27/15 17:26 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,2-Dichlorobenzene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,2-Dichloropropane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,3-Dichlorobenzene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,3-Dichloropropane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | ND | 150 | 03/27/15 17:26 | |
| 2,2-Dichloropropane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 2-Butanone (MEK) | ug/L | ND | 5.0 | 03/27/15 17:26 | |
| 2-Chlorotoluene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 2-Hexanone | ug/L | ND | 5.0 | 03/27/15 17:26 | |
| 4-Chlorotoluene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 5.0 | 03/27/15 17:26 | |
| Acetone | ug/L | ND | 25.0 | 03/27/15 17:26 | |
| Benzene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Bromobenzene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Bromochloromethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Bromoform | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Bromomethane | ug/L | ND | 2.0 | 03/27/15 17:26 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Chlorobenzene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Chloroethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Chloroform | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Chloromethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| cis-1,2-Dichloroethene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| cis-1,3-Dichloropropene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Dibromochloromethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Dibromomethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

METHOD BLANK: 1420365

Matrix: Water

Associated Lab Samples: 92242145011, 92242145012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Dichlorodifluoromethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Diisopropyl ether | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Ethylbenzene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| m&p-Xylene | ug/L | ND | 2.0 | 03/27/15 17:26 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Methylene Chloride | ug/L | 4.6 | 2.0 | 03/27/15 17:26 | C9 |
| Naphthalene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| o-Xylene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| p-Isopropyltoluene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Styrene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Tetrachloroethene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Toluene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| trans-1,2-Dichloroethene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| trans-1,3-Dichloropropene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Trichloroethene | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Vinyl acetate | ug/L | ND | 2.0 | 03/27/15 17:26 | |
| Vinyl chloride | ug/L | ND | 1.0 | 03/27/15 17:26 | |
| Xylene (Total) | ug/L | ND | 2.0 | 03/27/15 17:26 | |
| 1,2-Dichloroethane-d4 (S) | % | 101 | 70-130 | 03/27/15 17:26 | |
| 4-Bromofluorobenzene (S) | % | 98 | 70-130 | 03/27/15 17:26 | |
| Toluene-d8 (S) | % | 100 | 70-130 | 03/27/15 17:26 | |

LABORATORY CONTROL SAMPLE: 1420366

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | 50 | 53.6 | 107 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 50 | 54.4 | 109 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 47.4 | 95 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 48.7 | 97 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 47.8 | 96 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 50 | 51.8 | 104 | 70-132 | |
| 1,1-Dichloropropene | ug/L | 50 | 58.4 | 117 | 70-130 | |
| 1,2,3-Trichlorobenzene | ug/L | 50 | 50.8 | 102 | 70-135 | |
| 1,2,3-Trichloropropane | ug/L | 50 | 47.1 | 94 | 70-130 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 51.2 | 102 | 70-134 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 48.2 | 96 | 70-130 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 50.6 | 101 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 49.3 | 99 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 46.3 | 93 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 50 | 47.9 | 96 | 70-130 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 48.5 | 97 | 70-130 | |
| 1,3-Dichloropropane | ug/L | 50 | 48.4 | 97 | 70-130 | |

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

LABORATORY CONTROL SAMPLE: 1420366

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,4-Dichlorobenzene | ug/L | 50 | 49.3 | 99 | 70-130 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | 1000 | 1440 | 144 | 71-125 | L3 |
| 2,2-Dichloropropane | ug/L | 50 | 52.7 | 105 | 58-145 | |
| 2-Butanone (MEK) | ug/L | 100 | 95.3 | 95 | 70-145 | |
| 2-Chlorotoluene | ug/L | 50 | 49.8 | 100 | 70-130 | |
| 2-Hexanone | ug/L | 100 | 102 | 102 | 70-144 | |
| 4-Chlorotoluene | ug/L | 50 | 49.0 | 98 | 70-130 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 99.1 | 99 | 70-140 | |
| Acetone | ug/L | 100 | 92.0 | 92 | 50-175 | |
| Benzene | ug/L | 50 | 51.1 | 102 | 70-130 | |
| Bromobenzene | ug/L | 50 | 46.3 | 93 | 70-130 | |
| Bromochloromethane | ug/L | 50 | 49.6 | 99 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 46.2 | 92 | 70-130 | |
| Bromoform | ug/L | 50 | 42.8 | 86 | 70-130 | |
| Bromomethane | ug/L | 50 | 61.5 | 123 | 54-130 | |
| Carbon tetrachloride | ug/L | 50 | 49.3 | 99 | 70-132 | |
| Chlorobenzene | ug/L | 50 | 48.1 | 96 | 70-130 | |
| Chloroethane | ug/L | 50 | 44.3 | 89 | 64-134 | |
| Chloroform | ug/L | 50 | 44.2 | 88 | 70-130 | |
| Chloromethane | ug/L | 50 | 48.7 | 97 | 64-130 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 49.3 | 99 | 70-131 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 52.0 | 104 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 48.9 | 98 | 70-130 | |
| Dibromomethane | ug/L | 50 | 49.0 | 98 | 70-131 | |
| Dichlorodifluoromethane | ug/L | 50 | 52.2 | 104 | 56-130 | |
| Diisopropyl ether | ug/L | 50 | 46.3 | 93 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 50.9 | 102 | 70-130 | |
| Hexachloro-1,3-butadiene | ug/L | 50 | 55.8 | 112 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 101 | 101 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 46.7 | 93 | 70-130 | |
| Methylene Chloride | ug/L | 50 | 50.1 | 100 | 63-130 | |
| Naphthalene | ug/L | 50 | 51.7 | 103 | 70-138 | |
| o-Xylene | ug/L | 50 | 48.7 | 97 | 70-130 | |
| p-Isopropyltoluene | ug/L | 50 | 52.9 | 106 | 70-130 | |
| Styrene | ug/L | 50 | 51.2 | 102 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 55.5 | 111 | 70-130 | |
| Toluene | ug/L | 50 | 49.5 | 99 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 49.0 | 98 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 54.6 | 109 | 70-132 | |
| Trichloroethene | ug/L | 50 | 50.5 | 101 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 46.8 | 94 | 62-133 | |
| Vinyl acetate | ug/L | 100 | 89.7 | 90 | 66-157 | |
| Vinyl chloride | ug/L | 50 | 51.4 | 103 | 50-150 | |
| Xylene (Total) | ug/L | 150 | 149 | 100 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 97 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 99 | 70-130 | |
| Toluene-d8 (S) | % | | | 100 | 70-130 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| MATRIX SPIKE SAMPLE: 1420367 | | 92242536004 | Spike | MS | MS | % Rec | |
|------------------------------|-------|-------------|-------|--------|-------|--------|------------|
| Parameter | Units | Result | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 20 | 21.5 | 108 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | ND | 20 | 24.8 | 124 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 20 | 20.4 | 102 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | ND | 20 | 20.5 | 103 | 70-130 | |
| 1,1-Dichloroethane | ug/L | ND | 20 | 21.4 | 107 | 70-130 | |
| 1,1-Dichloroethene | ug/L | ND | 20 | 24.4 | 122 | 70-166 | |
| 1,1-Dichloropropene | ug/L | ND | 20 | 26.2 | 131 | 70-130 | MO |
| 1,2,3-Trichlorobenzene | ug/L | ND | 20 | 20.4 | 102 | 70-130 | |
| 1,2,3-Trichloropropane | ug/L | ND | 20 | 19.8 | 99 | 70-130 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 20 | 20.7 | 104 | 70-130 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 20 | 19.2 | 96 | 70-130 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 20 | 20.7 | 104 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | ND | 20 | 20.5 | 103 | 70-130 | |
| 1,2-Dichloroethane | ug/L | ND | 20 | 20.5 | 103 | 70-130 | |
| 1,2-Dichloropropane | ug/L | ND | 20 | 20.6 | 103 | 70-130 | |
| 1,3-Dichlorobenzene | ug/L | ND | 20 | 20.3 | 102 | 70-130 | |
| 1,3-Dichloropropane | ug/L | ND | 20 | 20.0 | 100 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | ND | 20 | 20.6 | 103 | 70-130 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | 156 | 400 | 689 | 133 | 70-130 | MO |
| 2,2-Dichloropropane | ug/L | ND | 20 | 24.5 | 123 | 70-130 | |
| 2-Butanone (MEK) | ug/L | ND | 40 | 40.5 | 101 | 70-130 | |
| 2-Chlorotoluene | ug/L | ND | 20 | 20.8 | 104 | 70-130 | |
| 2-Hexanone | ug/L | ND | 40 | 42.0 | 105 | 70-130 | |
| 4-Chlorotoluene | ug/L | ND | 20 | 20.8 | 104 | 70-130 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 40 | 41.1 | 103 | 70-130 | |
| Acetone | ug/L | ND | 40 | 38.7 | 97 | 70-130 | |
| Benzene | ug/L | ND | 20 | 22.1 | 110 | 70-148 | |
| Bromobenzene | ug/L | ND | 20 | 18.7 | 93 | 70-130 | |
| Bromochloromethane | ug/L | ND | 20 | 21.8 | 109 | 70-130 | |
| Bromodichloromethane | ug/L | ND | 20 | 18.9 | 95 | 70-130 | |
| Bromoform | ug/L | ND | 20 | 16.7 | 84 | 70-130 | |
| Bromomethane | ug/L | ND | 20 | 22.2 | 111 | 70-130 | |
| Carbon tetrachloride | ug/L | ND | 20 | 23.6 | 118 | 70-130 | |
| Chlorobenzene | ug/L | ND | 20 | 20.4 | 102 | 70-146 | |
| Chloroethane | ug/L | ND | 20 | 21.3 | 106 | 70-130 | |
| Chloroform | ug/L | ND | 20 | 19.5 | 97 | 70-130 | |
| Chloromethane | ug/L | ND | 20 | 23.0 | 115 | 70-130 | |
| cis-1,2-Dichloroethene | ug/L | ND | 20 | 21.8 | 109 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | ND | 20 | 19.5 | 98 | 70-130 | |
| Dibromochloromethane | ug/L | ND | 20 | 18.3 | 92 | 70-130 | |
| Dibromomethane | ug/L | ND | 20 | 20.9 | 104 | 70-130 | |
| Dichlorodifluoromethane | ug/L | ND | 20 | 25.1 | 126 | 70-130 | |
| Diisopropyl ether | ug/L | ND | 20 | 20.3 | 101 | 70-130 | |
| Ethylbenzene | ug/L | ND | 20 | 21.9 | 109 | 70-130 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 20 | 22.6 | 113 | 70-130 | |
| m&p-Xylene | ug/L | ND | 40 | 43.3 | 108 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 20.0 | 100 | 70-130 | |

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

MATRIX SPIKE SAMPLE: 1420367

| Parameter | Units | 92242536004 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-----------------------|----------------|--------------|-------------|-----------------|------------|
| Methylene Chloride | ug/L | ND | 20 | 20.7 | 103 | 70-130 | |
| Naphthalene | ug/L | ND | 20 | 20.0 | 100 | 70-130 | |
| o-Xylene | ug/L | ND | 20 | 20.6 | 103 | 70-130 | |
| p-Isopropyltoluene | ug/L | ND | 20 | 22.3 | 112 | 70-130 | |
| Styrene | ug/L | ND | 20 | 21.2 | 106 | 70-130 | |
| Tetrachloroethene | ug/L | ND | 20 | 24.2 | 121 | 70-130 | |
| Toluene | ug/L | ND | 20 | 21.8 | 109 | 70-155 | |
| trans-1,2-Dichloroethene | ug/L | ND | 20 | 22.2 | 111 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | ND | 20 | 19.8 | 99 | 70-130 | |
| Trichloroethene | ug/L | ND | 20 | 21.6 | 108 | 69-151 | |
| Trichlorofluoromethane | ug/L | ND | 20 | 23.2 | 116 | 70-130 | |
| Vinyl acetate | ug/L | ND | 40 | 48.2 | 120 | 70-130 | |
| Vinyl chloride | ug/L | ND | 20 | 23.6 | 118 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 100 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | | 102 | 70-130 | |
| Toluene-d8 (S) | % | | | | 99 | 70-130 | |

SAMPLE DUPLICATE: 1420368

| Parameter | Units | 92242536005 Result | Dup Result | RPD | Qualifiers |
|-----------------------------|-------|-----------------------|---------------|-----|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | ND | | |
| 1,1,1-Trichloroethane | ug/L | ND | ND | | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | ND | | |
| 1,1,2-Trichloroethane | ug/L | ND | ND | | |
| 1,1-Dichloroethane | ug/L | ND | ND | | |
| 1,1-Dichloroethene | ug/L | ND | ND | | |
| 1,1-Dichloropropene | ug/L | ND | ND | | |
| 1,2,3-Trichlorobenzene | ug/L | ND | ND | | |
| 1,2,3-Trichloropropane | ug/L | ND | ND | | |
| 1,2,4-Trichlorobenzene | ug/L | ND | ND | | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | ND | | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | ND | | |
| 1,2-Dichlorobenzene | ug/L | ND | ND | | |
| 1,2-Dichloroethane | ug/L | ND | ND | | |
| 1,2-Dichloropropane | ug/L | ND | ND | | |
| 1,3-Dichlorobenzene | ug/L | ND | ND | | |
| 1,3-Dichloropropane | ug/L | ND | ND | | |
| 1,4-Dichlorobenzene | ug/L | ND | ND | | |
| 1,4-Dioxane (p-Dioxane) | ug/L | 92.8J | ND | | |
| 2,2-Dichloropropane | ug/L | ND | ND | | |
| 2-Butanone (MEK) | ug/L | ND | ND | | |
| 2-Chlorotoluene | ug/L | ND | ND | | |
| 2-Hexanone | ug/L | ND | ND | | |
| 4-Chlorotoluene | ug/L | ND | ND | | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | ND | | |

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

SAMPLE DUPLICATE: 1420368

| Parameter | Units | 92242536005 Result | Dup Result | RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|
| Acetone | ug/L | ND | ND | | |
| Benzene | ug/L | ND | ND | | |
| Bromobenzene | ug/L | ND | ND | | |
| Bromochloromethane | ug/L | ND | ND | | |
| Bromodichloromethane | ug/L | ND | ND | | |
| Bromoform | ug/L | ND | ND | | |
| Bromomethane | ug/L | ND | ND | | |
| Carbon tetrachloride | ug/L | ND | ND | | |
| Chlorobenzene | ug/L | ND | ND | | |
| Chloroethane | ug/L | ND | ND | | |
| Chloroform | ug/L | ND | ND | | |
| Chloromethane | ug/L | ND | ND | | |
| cis-1,2-Dichloroethene | ug/L | ND | ND | | |
| cis-1,3-Dichloropropene | ug/L | ND | ND | | |
| Dibromochloromethane | ug/L | ND | ND | | |
| Dibromomethane | ug/L | ND | ND | | |
| Dichlorodifluoromethane | ug/L | ND | ND | | |
| Diisopropyl ether | ug/L | ND | ND | | |
| Ethylbenzene | ug/L | ND | ND | | |
| Hexachloro-1,3-butadiene | ug/L | ND | ND | | |
| m&p-Xylene | ug/L | ND | ND | | |
| Methyl-tert-butyl ether | ug/L | ND | ND | | |
| Methylene Chloride | ug/L | ND | ND | | |
| Naphthalene | ug/L | ND | ND | | |
| o-Xylene | ug/L | ND | ND | | |
| p-Isopropyltoluene | ug/L | ND | ND | | |
| Styrene | ug/L | ND | ND | | |
| Tetrachloroethene | ug/L | ND | ND | | |
| Toluene | ug/L | ND | ND | | |
| trans-1,2-Dichloroethene | ug/L | ND | ND | | |
| trans-1,3-Dichloropropene | ug/L | ND | ND | | |
| Trichloroethene | ug/L | ND | ND | | |
| Trichlorofluoromethane | ug/L | ND | ND | | |
| Vinyl acetate | ug/L | ND | ND | | |
| Vinyl chloride | ug/L | ND | ND | | |
| Xylene (Total) | ug/L | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 101 | 101 | | 0 |
| 4-Bromofluorobenzene (S) | % | 98 | 101 | | 3 |
| Toluene-d8 (S) | % | 101 | 102 | | 1 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

QC Batch: MSV/30922

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92242145001, 92242145002, 92242145003, 92242145004, 92242145005, 92242145006, 92242145007, 92242145008, 92242145010, 92242145013

METHOD BLANK: 1420413

Matrix: Water

Associated Lab Samples: 92242145001, 92242145002, 92242145003, 92242145004, 92242145005, 92242145006, 92242145007, 92242145008, 92242145010, 92242145013

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,1-Dichloroethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,1-Dichloroethene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,1-Dichloropropene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,2,3-Trichloropropane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 2.0 | 03/28/15 03:03 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,2-Dichlorobenzene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,2-Dichloropropane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,3-Dichlorobenzene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,3-Dichloropropane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | ND | 150 | 03/28/15 03:03 | |
| 2,2-Dichloropropane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 2-Butanone (MEK) | ug/L | ND | 5.0 | 03/28/15 03:03 | |
| 2-Chlorotoluene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 2-Hexanone | ug/L | ND | 5.0 | 03/28/15 03:03 | |
| 4-Chlorotoluene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 5.0 | 03/28/15 03:03 | |
| Acetone | ug/L | ND | 25.0 | 03/28/15 03:03 | |
| Benzene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Bromobenzene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Bromochloromethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Bromoform | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Bromomethane | ug/L | ND | 2.0 | 03/28/15 03:03 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Chlorobenzene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Chloroethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Chloroform | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Chloromethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| cis-1,2-Dichloroethene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| cis-1,3-Dichloropropene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Dibromochloromethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25
Pace Project No.: 92242145

METHOD BLANK: 1420413 Matrix: Water
Associated Lab Samples: 92242145001, 92242145002, 92242145003, 92242145004, 92242145005, 92242145006, 92242145007, 92242145008, 92242145010, 92242145013

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Dibromomethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Dichlorodifluoromethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Diisopropyl ether | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Ethylbenzene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| m&p-Xylene | ug/L | ND | 2.0 | 03/28/15 03:03 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Methylene Chloride | ug/L | 4.6 | 2.0 | 03/28/15 03:03 | C9 |
| Naphthalene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| o-Xylene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| p-Isopropyltoluene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Styrene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Tetrachloroethene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Toluene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| trans-1,2-Dichloroethene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| trans-1,3-Dichloropropene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Trichloroethene | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Vinyl acetate | ug/L | ND | 2.0 | 03/28/15 03:03 | |
| Vinyl chloride | ug/L | ND | 1.0 | 03/28/15 03:03 | |
| Xylene (Total) | ug/L | ND | 2.0 | 03/28/15 03:03 | |
| 1,2-Dichloroethane-d4 (S) | % | 101 | 70-130 | 03/28/15 03:03 | |
| 4-Bromofluorobenzene (S) | % | 99 | 70-130 | 03/28/15 03:03 | |
| Toluene-d8 (S) | % | 100 | 70-130 | 03/28/15 03:03 | |

LABORATORY CONTROL SAMPLE: 1420414

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | 50 | 50.1 | 100 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 50 | 52.2 | 104 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 43.7 | 87 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 47.5 | 95 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 46.2 | 92 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 50 | 50.6 | 101 | 70-132 | |
| 1,1-Dichloropropene | ug/L | 50 | 55.5 | 111 | 70-130 | |
| 1,2,3-Trichlorobenzene | ug/L | 50 | 47.5 | 95 | 70-135 | |
| 1,2,3-Trichloropropane | ug/L | 50 | 46.1 | 92 | 70-130 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 47.1 | 94 | 70-134 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 46.1 | 92 | 70-130 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 48.0 | 96 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 46.5 | 93 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 45.5 | 91 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 50 | 46.3 | 93 | 70-130 | |

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

LABORATORY CONTROL SAMPLE: 1420414

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,3-Dichlorobenzene | ug/L | 50 | 45.4 | 91 | 70-130 | |
| 1,3-Dichloropropane | ug/L | 50 | 46.3 | 93 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 45.8 | 92 | 70-130 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | 1000 | 1070 | 107 | 71-125 | |
| 2,2-Dichloropropane | ug/L | 50 | 44.8 | 90 | 58-145 | |
| 2-Butanone (MEK) | ug/L | 100 | 92.4 | 92 | 70-145 | |
| 2-Chlorotoluene | ug/L | 50 | 45.7 | 91 | 70-130 | |
| 2-Hexanone | ug/L | 100 | 99.4 | 99 | 70-144 | |
| 4-Chlorotoluene | ug/L | 50 | 45.9 | 92 | 70-130 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 98.0 | 98 | 70-140 | |
| Acetone | ug/L | 100 | 92.4 | 92 | 50-175 | |
| Benzene | ug/L | 50 | 48.9 | 98 | 70-130 | |
| Bromobenzene | ug/L | 50 | 41.6 | 83 | 70-130 | |
| Bromochloromethane | ug/L | 50 | 48.0 | 96 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 43.7 | 87 | 70-130 | |
| Bromoform | ug/L | 50 | 35.2 | 70 | 70-130 | |
| Bromomethane | ug/L | 50 | 24.8 | 50 | 54-130 | L0 |
| Carbon tetrachloride | ug/L | 50 | 45.7 | 91 | 70-132 | |
| Chlorobenzene | ug/L | 50 | 46.0 | 92 | 70-130 | |
| Chloroethane | ug/L | 50 | 43.8 | 88 | 64-134 | |
| Chloroform | ug/L | 50 | 42.7 | 85 | 70-130 | |
| Chloromethane | ug/L | 50 | 42.4 | 85 | 64-130 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 47.6 | 95 | 70-131 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 41.6 | 83 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 43.8 | 88 | 70-130 | |
| Dibromomethane | ug/L | 50 | 47.3 | 95 | 70-131 | |
| Dichlorodifluoromethane | ug/L | 50 | 49.4 | 99 | 56-130 | |
| Diisopropyl ether | ug/L | 50 | 45.2 | 90 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 48.1 | 96 | 70-130 | |
| Hexachloro-1,3-butadiene | ug/L | 50 | 51.5 | 103 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 95.6 | 96 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 45.2 | 90 | 70-130 | |
| Methylene Chloride | ug/L | 50 | 49.2 | 98 | 63-130 | |
| Naphthalene | ug/L | 50 | 48.1 | 96 | 70-138 | |
| o-Xylene | ug/L | 50 | 46.2 | 92 | 70-130 | |
| p-Isopropyltoluene | ug/L | 50 | 48.6 | 97 | 70-130 | |
| Styrene | ug/L | 50 | 48.5 | 97 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 51.3 | 103 | 70-130 | |
| Toluene | ug/L | 50 | 47.7 | 95 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 46.9 | 94 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 40.4 | 81 | 70-132 | |
| Trichloroethene | ug/L | 50 | 50.3 | 101 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 46.8 | 94 | 62-133 | |
| Vinyl acetate | ug/L | 100 | 70.1 | 70 | 66-157 | |
| Vinyl chloride | ug/L | 50 | 48.8 | 98 | 50-150 | |
| Xylene (Total) | ug/L | 150 | 142 | 95 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 100 | 70-130 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

LABORATORY CONTROL SAMPLE: 1420414

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Bromofluorobenzene (S) | % | | | 101 | 70-130 | |
| Toluene-d8 (S) | % | | | 101 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1420415 1420416

| Parameter | 92242145002 | | MS | MSD | MS | MSD | MS | MSD | % Rec | RPD | Qual |
|-----------------------------|-------------|--------|-------------|-------------|--------|--------|-------|-------|--------|-----|------|
| | Units | Result | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | Limits | | |
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 20 | 20 | 19.8 | 21.5 | 99 | 108 | 70-130 | 8 | |
| 1,1,1-Trichloroethane | ug/L | ND | 20 | 20 | 23.1 | 25.0 | 116 | 125 | 70-130 | 8 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 20 | 20 | 18.6 | 20.7 | 93 | 104 | 70-130 | 11 | |
| 1,1,2-Trichloroethane | ug/L | ND | 20 | 20 | 19.9 | 20.7 | 100 | 104 | 70-130 | 4 | |
| 1,1-Dichloroethane | ug/L | ND | 20 | 20 | 20.4 | 22.3 | 100 | 110 | 70-130 | 9 | |
| 1,1-Dichloroethene | ug/L | 10.6 | 20 | 20 | 33.0 | 36.3 | 112 | 128 | 70-166 | 10 | |
| 1,1-Dichloropropene | ug/L | ND | 20 | 20 | 24.7 | 27.2 | 123 | 136 | 70-130 | 10 | M0 |
| 1,2,3-Trichlorobenzene | ug/L | ND | 20 | 20 | 18.4 | 20.3 | 92 | 102 | 70-130 | 10 | |
| 1,2,3-Trichloropropane | ug/L | ND | 20 | 20 | 18.5 | 19.6 | 92 | 98 | 70-130 | 6 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 20 | 20 | 19.0 | 20.7 | 95 | 104 | 70-130 | 9 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 20 | 20 | 17.9 | 18.7 | 89 | 93 | 70-130 | 5 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 20 | 20 | 19.1 | 20.9 | 95 | 105 | 70-130 | 9 | |
| 1,2-Dichlorobenzene | ug/L | ND | 20 | 20 | 19.0 | 20.7 | 95 | 104 | 70-130 | 9 | |
| 1,2-Dichloroethane | ug/L | ND | 20 | 20 | 18.9 | 20.9 | 94 | 104 | 70-130 | 10 | |
| 1,2-Dichloropropane | ug/L | ND | 20 | 20 | 19.5 | 21.0 | 97 | 105 | 70-130 | 8 | |
| 1,3-Dichlorobenzene | ug/L | ND | 20 | 20 | 18.7 | 20.8 | 94 | 104 | 70-130 | 11 | |
| 1,3-Dichloropropane | ug/L | ND | 20 | 20 | 18.6 | 20.3 | 93 | 101 | 70-130 | 8 | |
| 1,4-Dichlorobenzene | ug/L | ND | 20 | 20 | 19.0 | 20.8 | 95 | 104 | 70-130 | 9 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | ND | 400 | 400 | 514 | 579 | 128 | 145 | 70-130 | 12 | M0 |
| 2,2-Dichloropropane | ug/L | ND | 20 | 20 | 22.4 | 24.5 | 112 | 123 | 70-130 | 9 | |
| 2-Butanone (MEK) | ug/L | ND | 40 | 40 | 38.0 | 40.5 | 95 | 101 | 70-130 | 6 | |
| 2-Chlorotoluene | ug/L | ND | 20 | 20 | 19.6 | 21.0 | 98 | 105 | 70-130 | 7 | |
| 2-Hexanone | ug/L | ND | 40 | 40 | 37.9 | 41.2 | 95 | 103 | 70-130 | 8 | |
| 4-Chlorotoluene | ug/L | ND | 20 | 20 | 19.3 | 21.1 | 97 | 105 | 70-130 | 9 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 40 | 40 | 38.9 | 40.7 | 97 | 102 | 70-130 | 5 | |
| Acetone | ug/L | ND | 40 | 40 | 35.0 | 39.6 | 87 | 99 | 70-130 | 12 | |
| Benzene | ug/L | ND | 20 | 20 | 21.0 | 22.7 | 105 | 114 | 70-148 | 8 | |
| Bromobenzene | ug/L | ND | 20 | 20 | 17.6 | 21.0 | 88 | 105 | 70-130 | 17 | |
| Bromochloromethane | ug/L | ND | 20 | 20 | 20.0 | 22.3 | 100 | 111 | 70-130 | 11 | |
| Bromodichloromethane | ug/L | ND | 20 | 20 | 17.6 | 18.7 | 88 | 94 | 70-130 | 6 | |
| Bromoform | ug/L | ND | 20 | 20 | 16.0 | 16.6 | 80 | 83 | 70-130 | 3 | |
| Bromomethane | ug/L | ND | 20 | 20 | 21.4 | 25.2 | 107 | 126 | 70-130 | 16 | |
| Carbon tetrachloride | ug/L | ND | 20 | 20 | 21.9 | 23.7 | 110 | 118 | 70-130 | 8 | |
| Chlorobenzene | ug/L | ND | 20 | 20 | 19.0 | 21.1 | 95 | 105 | 70-146 | 11 | |
| Chloroethane | ug/L | ND | 20 | 20 | 20.0 | 22.2 | 100 | 111 | 70-130 | 11 | |
| Chloroform | ug/L | ND | 20 | 20 | 18.0 | 19.8 | 90 | 99 | 70-130 | 9 | |
| Chloromethane | ug/L | ND | 20 | 20 | 21.8 | 23.4 | 109 | 117 | 70-130 | 7 | |
| cis-1,2-Dichloroethene | ug/L | ND | 20 | 20 | 20.5 | 22.6 | 102 | 113 | 70-130 | 10 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Parameter | 92242145002 | | MS | | MSD | | MS | | MSD | | % Rec | Limits | RPD | Qual |
|---------------------------|-------------|--------|-------------|-----------------|--------|------------|-------|-----------|--------|----|-------|--------|-----|------|
| | Units | Result | Spike Conc. | MSD Spike Conc. | Result | MSD Result | % Rec | MSD % Rec | | | | | | |
| cis-1,3-Dichloropropene | ug/L | ND | 20 | 20 | 18.4 | 19.5 | 92 | 98 | 70-130 | 6 | | | | |
| Dibromochloromethane | ug/L | ND | 20 | 20 | 16.9 | 18.2 | 84 | 91 | 70-130 | 7 | | | | |
| Dibromomethane | ug/L | ND | 20 | 20 | 19.3 | 20.9 | 97 | 104 | 70-130 | 8 | | | | |
| Dichlorodifluoromethane | ug/L | ND | 20 | 20 | 23.7 | 25.6 | 119 | 128 | 70-130 | 8 | | | | |
| Diisopropyl ether | ug/L | ND | 20 | 20 | 18.9 | 20.7 | 94 | 104 | 70-130 | 9 | | | | |
| Ethylbenzene | ug/L | ND | 20 | 20 | 20.3 | 22.2 | 102 | 111 | 70-130 | 9 | | | | |
| Hexachloro-1,3-butadiene | ug/L | ND | 20 | 20 | 19.7 | 21.8 | 98 | 109 | 70-130 | 10 | | | | |
| m&p-Xylene | ug/L | ND | 40 | 40 | 40.5 | 44.4 | 101 | 111 | 70-130 | 9 | | | | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 20 | 18.6 | 20.5 | 93 | 102 | 70-130 | 9 | | | | |
| Methylene Chloride | ug/L | ND | 20 | 20 | 19.0 | 21.1 | 95 | 105 | 70-130 | 10 | | | | |
| Naphthalene | ug/L | ND | 20 | 20 | 18.5 | 19.7 | 93 | 99 | 70-130 | 6 | | | | |
| o-Xylene | ug/L | ND | 20 | 20 | 19.2 | 21.2 | 96 | 106 | 70-130 | 10 | | | | |
| p-Isopropyltoluene | ug/L | ND | 20 | 20 | 20.4 | 22.3 | 102 | 112 | 70-130 | 9 | | | | |
| Styrene | ug/L | ND | 20 | 20 | 19.6 | 21.7 | 98 | 108 | 70-130 | 10 | | | | |
| Tetrachloroethene | ug/L | ND | 20 | 20 | 22.3 | 24.7 | 111 | 124 | 70-130 | 10 | | | | |
| Toluene | ug/L | ND | 20 | 20 | 20.3 | 22.0 | 101 | 110 | 70-155 | 8 | | | | |
| trans-1,2-Dichloroethene | ug/L | ND | 20 | 20 | 20.7 | 22.7 | 104 | 114 | 70-130 | 9 | | | | |
| trans-1,3-Dichloropropene | ug/L | ND | 20 | 20 | 17.8 | 19.5 | 89 | 97 | 70-130 | 9 | | | | |
| Trichloroethene | ug/L | ND | 20 | 20 | 20.6 | 22.3 | 103 | 111 | 69-151 | 8 | | | | |
| Trichlorofluoromethane | ug/L | ND | 20 | 20 | 21.5 | 23.8 | 107 | 119 | 70-130 | 10 | | | | |
| Vinyl acetate | ug/L | ND | 40 | 40 | 44.1 | 47.4 | 110 | 119 | 70-130 | 7 | | | | |
| Vinyl chloride | ug/L | ND | 20 | 20 | 22.5 | 24.8 | 113 | 124 | 70-130 | 10 | | | | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 98 | 99 | 70-130 | | | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 102 | 102 | 70-130 | | | | | |
| Toluene-d8 (S) | % | | | | | | 100 | 99 | 70-130 | | | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

QC Batch: MSV/30923

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92242145009

METHOD BLANK: 1420430

Matrix: Water

Associated Lab Samples: 92242145009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,1-Dichloroethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,1-Dichloroethene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,1-Dichloropropene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,2,3-Trichloropropane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 2.0 | 03/28/15 03:20 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,2-Dichlorobenzene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,2-Dichloropropane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,3-Dichlorobenzene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,3-Dichloropropane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | ND | 150 | 03/28/15 03:20 | |
| 2,2-Dichloropropane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 2-Butanone (MEK) | ug/L | ND | 5.0 | 03/28/15 03:20 | |
| 2-Chlorotoluene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 2-Hexanone | ug/L | ND | 5.0 | 03/28/15 03:20 | |
| 4-Chlorotoluene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 5.0 | 03/28/15 03:20 | |
| Acetone | ug/L | ND | 25.0 | 03/28/15 03:20 | |
| Benzene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Bromobenzene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Bromochloromethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Bromoform | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Bromomethane | ug/L | ND | 2.0 | 03/28/15 03:20 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Chlorobenzene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Chloroethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Chloroform | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Chloromethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| cis-1,2-Dichloroethene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| cis-1,3-Dichloropropene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Dibromochloromethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Dibromomethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

METHOD BLANK: 1420430

Matrix: Water

Associated Lab Samples: 92242145009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Dichlorodifluoromethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Diisopropyl ether | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Ethylbenzene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| m&p-Xylene | ug/L | ND | 2.0 | 03/28/15 03:20 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Methylene Chloride | ug/L | 4.8 | 2.0 | 03/28/15 03:20 | C9 |
| Naphthalene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| o-Xylene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| p-Isopropyltoluene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Styrene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Tetrachloroethene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Toluene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| trans-1,2-Dichloroethene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| trans-1,3-Dichloropropene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Trichloroethene | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Vinyl acetate | ug/L | ND | 2.0 | 03/28/15 03:20 | |
| Vinyl chloride | ug/L | ND | 1.0 | 03/28/15 03:20 | |
| Xylene (Total) | ug/L | ND | 2.0 | 03/28/15 03:20 | |
| 1,2-Dichloroethane-d4 (S) | % | 102 | 70-130 | 03/28/15 03:20 | |
| 4-Bromofluorobenzene (S) | % | 99 | 70-130 | 03/28/15 03:20 | |
| Toluene-d8 (S) | % | 100 | 70-130 | 03/28/15 03:20 | |

LABORATORY CONTROL SAMPLE: 1420431

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | 50 | 49.9 | 100 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 50 | 52.5 | 105 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 44.4 | 89 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 48.2 | 96 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 46.7 | 93 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 50 | 50.6 | 101 | 70-132 | |
| 1,1-Dichloropropene | ug/L | 50 | 55.5 | 111 | 70-130 | |
| 1,2,3-Trichlorobenzene | ug/L | 50 | 46.9 | 94 | 70-135 | |
| 1,2,3-Trichloropropane | ug/L | 50 | 46.5 | 93 | 70-130 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 46.9 | 94 | 70-134 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 46.3 | 93 | 70-130 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 49.0 | 98 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 46.6 | 93 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 46.1 | 92 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 50 | 46.8 | 94 | 70-130 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 45.6 | 91 | 70-130 | |
| 1,3-Dichloropropane | ug/L | 50 | 46.7 | 93 | 70-130 | |

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

LABORATORY CONTROL SAMPLE: 1420431

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,4-Dichlorobenzene | ug/L | 50 | 45.7 | 91 | 70-130 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | 1000 | 1130 | 113 | 71-125 | |
| 2,2-Dichloropropane | ug/L | 50 | 45.2 | 90 | 58-145 | |
| 2-Butanone (MEK) | ug/L | 100 | 95.1 | 95 | 70-145 | |
| 2-Chlorotoluene | ug/L | 50 | 46.0 | 92 | 70-130 | |
| 2-Hexanone | ug/L | 100 | 102 | 102 | 70-144 | |
| 4-Chlorotoluene | ug/L | 50 | 45.7 | 91 | 70-130 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 99.5 | 99 | 70-140 | |
| Acetone | ug/L | 100 | 95.5 | 95 | 50-175 | |
| Benzene | ug/L | 50 | 48.8 | 98 | 70-130 | |
| Bromobenzene | ug/L | 50 | 42.5 | 85 | 70-130 | |
| Bromochloromethane | ug/L | 50 | 48.5 | 97 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 43.5 | 87 | 70-130 | |
| Bromoform | ug/L | 50 | 35.7 | 71 | 70-130 | |
| Bromomethane | ug/L | 50 | 28.0 | 56 | 54-130 | |
| Carbon tetrachloride | ug/L | 50 | 46.1 | 92 | 70-132 | |
| Chlorobenzene | ug/L | 50 | 45.7 | 91 | 70-130 | |
| Chloroethane | ug/L | 50 | 44.0 | 88 | 64-134 | |
| Chloroform | ug/L | 50 | 42.7 | 85 | 70-130 | |
| Chloromethane | ug/L | 50 | 46.9 | 94 | 64-130 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 48.2 | 96 | 70-131 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 41.7 | 83 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 44.6 | 89 | 70-130 | |
| Dibromomethane | ug/L | 50 | 47.8 | 96 | 70-131 | |
| Dichlorodifluoromethane | ug/L | 50 | 49.0 | 98 | 56-130 | |
| Diisopropyl ether | ug/L | 50 | 46.1 | 92 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 47.6 | 95 | 70-130 | |
| Hexachloro-1,3-butadiene | ug/L | 50 | 49.0 | 98 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 94.8 | 95 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 46.1 | 92 | 70-130 | |
| Methylene Chloride | ug/L | 50 | 50.3 | 101 | 63-130 | |
| Naphthalene | ug/L | 50 | 48.5 | 97 | 70-138 | |
| o-Xylene | ug/L | 50 | 45.8 | 92 | 70-130 | |
| p-Isopropyltoluene | ug/L | 50 | 47.8 | 96 | 70-130 | |
| Styrene | ug/L | 50 | 48.4 | 97 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 51.6 | 103 | 70-130 | |
| Toluene | ug/L | 50 | 47.8 | 96 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 47.3 | 95 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 40.7 | 81 | 70-132 | |
| Trichloroethene | ug/L | 50 | 50.2 | 100 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 46.5 | 93 | 62-133 | |
| Vinyl acetate | ug/L | 100 | 70.0 | 70 | 66-157 | |
| Vinyl chloride | ug/L | 50 | 48.7 | 97 | 50-150 | |
| Xylene (Total) | ug/L | 150 | 141 | 94 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 100 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 70-130 | |
| Toluene-d8 (S) | % | | | 100 | 70-130 | |

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

QC Batch: MSV/31229

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92242145014, 92242145015

METHOD BLANK: 1436614

Matrix: Water

Associated Lab Samples: 92242145014, 92242145015

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,1-Dichloroethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,1-Dichloroethene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,1-Dichloropropene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,2,3-Trichloropropane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 2.0 | 04/14/15 10:46 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,2-Dichlorobenzene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,2-Dichloropropane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,3-Dichlorobenzene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,3-Dichloropropane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | ND | 150 | 04/14/15 10:46 | |
| 2,2-Dichloropropane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 2-Butanone (MEK) | ug/L | ND | 5.0 | 04/14/15 10:46 | |
| 2-Chlorotoluene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 2-Hexanone | ug/L | ND | 5.0 | 04/14/15 10:46 | |
| 4-Chlorotoluene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 5.0 | 04/14/15 10:46 | |
| Acetone | ug/L | ND | 25.0 | 04/14/15 10:46 | |
| Benzene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Bromobenzene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Bromochloromethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Bromoform | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Bromomethane | ug/L | ND | 2.0 | 04/14/15 10:46 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Chlorobenzene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Chloroethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Chloroform | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Chloromethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| cis-1,2-Dichloroethene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| cis-1,3-Dichloropropene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Dibromochloromethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Dibromomethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

METHOD BLANK: 1436614

Matrix: Water

Associated Lab Samples: 92242145014, 92242145015

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Dichlorodifluoromethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Diisopropyl ether | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Ethylbenzene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| m&p-Xylene | ug/L | ND | 2.0 | 04/14/15 10:46 | |
| Methyl-tert-butyl ether | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Methylene Chloride | ug/L | ND | 2.0 | 04/14/15 10:46 | |
| Naphthalene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| o-Xylene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| p-Isopropyltoluene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Styrene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Tetrachloroethene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Toluene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| trans-1,2-Dichloroethene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| trans-1,3-Dichloropropene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Trichloroethene | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Vinyl acetate | ug/L | ND | 2.0 | 04/14/15 10:46 | |
| Vinyl chloride | ug/L | ND | 1.0 | 04/14/15 10:46 | |
| Xylene (Total) | ug/L | ND | 2.0 | 04/14/15 10:46 | |
| 1,2-Dichloroethane-d4 (S) | % | 104 | 70-130 | 04/14/15 10:46 | |
| 4-Bromofluorobenzene (S) | % | 102 | 70-130 | 04/14/15 10:46 | |
| Toluene-d8 (S) | % | 98 | 70-130 | 04/14/15 10:46 | |

LABORATORY CONTROL SAMPLE: 1436615

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | 50 | 53.0 | 106 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 50 | 52.0 | 104 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 53.3 | 107 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 50.1 | 100 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 46.7 | 93 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 50 | 45.3 | 91 | 70-132 | |
| 1,1-Dichloropropene | ug/L | 50 | 50.5 | 101 | 70-130 | |
| 1,2,3-Trichlorobenzene | ug/L | 50 | 55.3 | 111 | 70-135 | |
| 1,2,3-Trichloropropane | ug/L | 50 | 52.6 | 105 | 70-130 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 55.1 | 110 | 70-134 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 53.7 | 107 | 70-130 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 53.1 | 106 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 53.8 | 108 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 50.5 | 101 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 50 | 46.2 | 92 | 70-130 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 53.5 | 107 | 70-130 | |
| 1,3-Dichloropropane | ug/L | 50 | 54.1 | 108 | 70-130 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25
Pace Project No.: 92242145

LABORATORY CONTROL SAMPLE: 1436615

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,4-Dichlorobenzene | ug/L | 50 | 53.0 | 106 | 70-130 | |
| 1,4-Dioxane (p-Dioxane) | ug/L | 1000 | 1250 | 125 | 71-125 | |
| 2,2-Dichloropropane | ug/L | 50 | 49.6 | 99 | 58-145 | |
| 2-Butanone (MEK) | ug/L | 100 | 99.2 | 99 | 70-145 | |
| 2-Chlorotoluene | ug/L | 50 | 55.8 | 112 | 70-130 | |
| 2-Hexanone | ug/L | 100 | 117 | 117 | 70-144 | |
| 4-Chlorotoluene | ug/L | 50 | 55.4 | 111 | 70-130 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 104 | 104 | 70-140 | |
| Acetone | ug/L | 100 | 102 | 102 | 50-175 | |
| Benzene | ug/L | 50 | 49.0 | 98 | 70-130 | |
| Bromobenzene | ug/L | 50 | 51.7 | 103 | 70-130 | |
| Bromochloromethane | ug/L | 50 | 45.4 | 91 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 47.4 | 95 | 70-130 | |
| Bromoform | ug/L | 50 | 46.1 | 92 | 70-130 | |
| Bromomethane | ug/L | 50 | 26.3 | 53 | 54-130 | L0 |
| Carbon tetrachloride | ug/L | 50 | 51.8 | 104 | 70-132 | |
| Chlorobenzene | ug/L | 50 | 54.0 | 108 | 70-130 | |
| Chloroethane | ug/L | 50 | 39.3 | 79 | 64-134 | |
| Chloroform | ug/L | 50 | 45.4 | 91 | 70-130 | |
| Chloromethane | ug/L | 50 | 30.7 | 61 | 64-130 | L0 |
| cis-1,2-Dichloroethene | ug/L | 50 | 47.2 | 94 | 70-131 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 49.2 | 98 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 47.6 | 95 | 70-130 | |
| Dibromomethane | ug/L | 50 | 48.4 | 97 | 70-131 | |
| Dichlorodifluoromethane | ug/L | 50 | 44.1 | 88 | 56-130 | |
| Diisopropyl ether | ug/L | 50 | 48.4 | 97 | 70-130 | |
| Ethylbenzene | ug/L | 50 | 56.3 | 113 | 70-130 | |
| Hexachloro-1,3-butadiene | ug/L | 50 | 50.6 | 101 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 115 | 115 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 47.6 | 95 | 70-130 | |
| Methylene Chloride | ug/L | 50 | 50.6 | 101 | 63-130 | |
| Naphthalene | ug/L | 50 | 50.9 | 102 | 70-138 | |
| o-Xylene | ug/L | 50 | 55.6 | 111 | 70-130 | |
| p-Isopropyltoluene | ug/L | 50 | 52.9 | 106 | 70-130 | |
| Styrene | ug/L | 50 | 53.1 | 106 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 57.6 | 115 | 70-130 | |
| Toluene | ug/L | 50 | 50.5 | 101 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 45.5 | 91 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 52.0 | 104 | 70-132 | |
| Trichloroethene | ug/L | 50 | 48.4 | 97 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 47.2 | 94 | 62-133 | |
| Vinyl acetate | ug/L | 100 | 104 | 104 | 66-157 | |
| Vinyl chloride | ug/L | 50 | 40.5 | 81 | 50-150 | |
| Xylene (Total) | ug/L | 150 | 170 | 114 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 105 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 106 | 70-130 | |
| Toluene-d8 (S) | % | | | 100 | 70-130 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

QC Batch: MSV/30891 Analysis Method: EPA 8260B Mod.
 QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
 Associated Lab Samples: 92242145001, 92242145002, 92242145003, 92242145004, 92242145005, 92242145006, 92242145007, 92242145008, 92242145009, 92242145010, 92242145011

METHOD BLANK: 1418611 Matrix: Water
 Associated Lab Samples: 92242145001, 92242145002, 92242145003, 92242145004, 92242145005, 92242145006, 92242145007, 92242145008, 92242145009, 92242145010, 92242145011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| 1,4-Dioxane (p-Dioxane) | ug/L | ND | 2.0 | 03/25/15 10:19 | |
| 1,2-Dichloroethane-d4 (S) | % | 114 | 50-150 | 03/25/15 10:19 | |
| Toluene-d8 (S) | % | 102 | 50-150 | 03/25/15 10:19 | |

LABORATORY CONTROL SAMPLE: 1418612

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,4-Dioxane (p-Dioxane) | ug/L | 20 | 20.3 | 102 | 71-125 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 111 | 50-150 | |
| Toluene-d8 (S) | % | | | 104 | 50-150 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1418613 1418614

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---------------------------|-------|-------------|--------|-------------|--------|----------|-----------|--------------|--------|------|
| | | Spike Conc. | Result | Spike Conc. | Result | | | | | |
| 1,4-Dioxane (p-Dioxane) | ug/L | ND | 20 | 20 | 27.0 | 26.9 | 135 | 134 | 50-150 | 0 |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 109 | 113 | 50-150 | |
| Toluene-d8 (S) | % | | | | | | 102 | 102 | 50-150 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Kop-Flex 39196.25

Pace Project No.: 92242145

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

C9 Common Laboratory Contaminant.

H1 Analysis conducted outside the EPA method holding time.

H5 Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

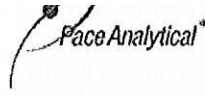
Project: Kop-Flex 39196.25

Pace Project No.: 92242145

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------------|-----------------|-----------|-------------------|------------------|
| 92242145001 | MW-28-45 | EPA 8260 | MSV/30922 | | |
| 92242145002 | MW-28-210 | EPA 8260 | MSV/30922 | | |
| 92242145003 | MW-100 | EPA 8260 | MSV/30922 | | |
| 92242145004 | MW-31-280 | EPA 8260 | MSV/30922 | | |
| 92242145005 | MW-33-235 | EPA 8260 | MSV/30922 | | |
| 92242145006 | MW-33-295 | EPA 8260 | MSV/30922 | | |
| 92242145007 | MW-35-298 | EPA 8260 | MSV/30922 | | |
| 92242145008 | MW-25-40 | EPA 8260 | MSV/30922 | | |
| 92242145009 | MW-25-130 | EPA 8260 | MSV/30923 | | |
| 92242145010 | MW-25-190 | EPA 8260 | MSV/30922 | | |
| 92242145011 | EB-031915 | EPA 8260 | MSV/30916 | | |
| 92242145012 | TRIP BLANK 1 | EPA 8260 | MSV/30916 | | |
| 92242145013 | TRIP BLANK 2 | EPA 8260 | MSV/30922 | | |
| 92242145014 | MW-33-235 Re-run #1 | EPA 8260 | MSV/31229 | | |
| 92242145015 | MW-33-235 Re-run #2 | EPA 8260 | MSV/31229 | | |
| 92242145001 | MW-28-45 | EPA 8260B Mod. | MSV/30891 | | |
| 92242145002 | MW-28-210 | EPA 8260B Mod. | MSV/30891 | | |
| 92242145003 | MW-100 | EPA 8260B Mod. | MSV/30891 | | |
| 92242145004 | MW-31-280 | EPA 8260B Mod. | MSV/30891 | | |
| 92242145005 | MW-33-235 | EPA 8260B Mod. | MSV/30891 | | |
| 92242145006 | MW-33-295 | EPA 8260B Mod. | MSV/30891 | | |
| 92242145007 | MW-35-298 | EPA 8260B Mod. | MSV/30891 | | |
| 92242145008 | MW-25-40 | EPA 8260B Mod. | MSV/30891 | | |
| 92242145009 | MW-25-130 | EPA 8260B Mod. | MSV/30891 | | |
| 92242145010 | MW-25-190 | EPA 8260B Mod. | MSV/30891 | | |
| 92242145011 | EB-031915 | EPA 8260B Mod. | MSV/30891 | | |

REPORT OF LABORATORY ANALYSIS

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Client Name: WSP

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble V Bubble Bags None Other _____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 4.1 °C Biological Tissue is Frozen: Yes No N/A
Temp should be above freezing to 6°C

Optional
Proj. Due Date
Proj. Name

Date and Initials of person examining contents: ME. 3/20/15

| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
|--|---|--------------------------------|
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Sampler Name & Signature on COC: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact: | <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 10. <u>#8 - one vial broke</u> |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: | | |
| All containers needing preservation have been checked. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Samples checked for dechlorination: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14. |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 15. |
| Trip Blank Present: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 16. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

Client Notification/ Resolution: _____ Field Data Required? Y / N
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

SCURF Review: [Signature] Date: 3/20/15
SRF Review: [Signature] Date: 3/20/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92242145





WSP CHAIN-OF-CUSTODY RECORD

Requested Analysis

Page 1 of 1

0224MS

WSP Office Address: 1190 Sunrise Valley Dr, Reston VA 20191
 Project No.: 39196.25
 WSP Contact Name: Eric Johnson
 WSP Contact E-mail: @wspgroup.com
 WSP Contact Phone: (703) 709-6500

Project Name & Location: Kog-Flex, However, MD
 Sampler's Name: Rob Wallace
 Sampler's Signature: [Signature]
 WSP Contact Name: Eric Johnson
 WSP Contact E-mail: @wspgroup.com
 WSP Contact Phone: (703) 709-6500

Requested Analysis: VOCs (8260), 1,4-Dioxane (8260)
 Preservative: []
 Requested TAT: STD
 Requested Deliverable: [] LEVEL II, [] LEVEL III, [] LEVEL IV, [] ERIMS EDD, [] GISKEY EDD, [] EQUIS EDD

| Sample ID | Comp/Grab | Collection Date | | Collection Time | | Matrix | No. of Containers | HCL/ACI | Preservative | Sample Comments |
|-----------------------------|-----------|-----------------|-------------------------|-----------------|------|-----------------|---------------------|---------------|--------------------|-----------------|
| | | Start | Stop | Start | Stop | | | | | |
| MU-24-45 | G | 3/17/15 | | 1740 | | Aq | 6 | X | | 001 |
| MU-28-210 | G | | | 1320 | | Aq | 6 | X | | 002 |
| MS/MSD (of MU-28-210) | | | | 1321 | | Aq | 6 | X | | I |
| MU-106 | | | | 1200 | | Aq | 6 | X | | 003 |
| MU-31-240 | | | | 1534 | | Aq | 6 | X | | 004 |
| MU-33-235 | G | 3/18/15 | | 1100 | | Aq | 6 | X | | 005 |
| MU-33-295 | | | | 1325 | | Aq | 6 | X | | 006 |
| MU-35-248 | | | | 1700 | | Aq | 6 | X | | 007 |
| MU-25-40 | G | 3/19/15 | | 0900 | | Aq | 6 | X | | 008 |
| MU-25-130 | | | | 1915 | | Aq | 6 | X | | 009 |
| MU-25-190 | | | | 1515 | | Aq | 6 | X | | 010 |
| ER-031915 | | | | 1430 | | Aq | 6 | X | | 011 |
| Trip Blank 1 | | | | | | Aq | 2 | X | | 012 |
| Trip Blank 2 | | | | | | Aq | 2 | X | | 013 |
| Relinquished By (Signature) | Date | Time | Received By (Signature) | Date | Time | Laboratory Name | Laboratory Location | Shipping Date | Laboratory Contact | |
| [Signature] | 3/19/15 | 2000 | [Signature] | 3/30/15 | 0945 | Page Analytical | Huntsville NC | 3/31/15 | Kevin Galvin | |

| Temp in °C | Received on Ice | Sealed Cooler | Sample Intact | Additional Comments |
|------------|-----------------|---------------|---------------|---------------------|
| 4.1 | X | N | N | Foldo X |

*Use start and stop time/date for composite and air samples. Include single start time and date for all other samples.
 Matrix: GW = Groundwater S = Soil SE = Sediment SW = Surface Water WW = Wastewater A = Air W = Wipe B = Bulk BI = Biota O = Other (detail in comments)
 Preservation: I = Ice H = HCl N = HNO3 S = H2SO4 NO = NaOH O = Other (detail in comments)

Enclosure B – Laboratory Reports for Residential Well Samples (January – March 2015)

Technical Report for

WSP

090149-04, Kop-Flex, Hanover, MD

39196

Accutest Job Number: JB86794

Sampling Date: 01/19/15

Report to:

**WSP
11190 Sunrise Valley Drive Suite 300
Reston, VA 20190
eric.johnson@wspgroup.com**

ATTN: Eric Johnson

Total number of pages in report: 22



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy F. Cole

**Nancy Cole
Laboratory Director**

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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Sample Summary

WSP

Job No: JB86794

090149-04, Kop-Flex, Hanover, MD
 Project No: 39196

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|----------|----------|--------|------------------|------------------|
| | Date | Time By | | Code | Type | |
| JB86794-1 | 01/19/15 | 13:25 ML | 01/21/15 | AQ | Ground Water | RW-7833CS-011915 |
| JB86794-2 | 01/19/15 | 12:30 ML | 01/21/15 | AQ | Ground Water | RW-100CS-011915 |
| JB86794-3 | 01/19/15 | 15:15 ML | 01/21/15 | AQ | Ground Water | RW-7814FN-011915 |
| JB86794-4 | 01/19/15 | 16:37 ML | 01/21/15 | AQ | Ground Water | RW-737DNS-011915 |
| JB86794-5 | 01/19/15 | 16:37 ML | 01/21/15 | AQ | Trip Blank Water | TRIP BLANKS |

Summary of Hits

Job Number: JB86794
Account: WSP
Project: 090149-04, Kop-Flex, Hanover, MD
Collected: 01/19/15

| Lab Sample ID | Client Sample ID | Result/ Analyte | RL | MDL | Units | Method |
|------------------|-------------------------|--------------------------------|------|-------|-------|-------------------|
| JB86794-1 | RW-7833CS-011915 | | | | | |
| | | Chloroform 0.11 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| | | Methyl Tert Butyl Ether 1.5 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |
| JB86794-2 | RW-100CS-011915 | | | | | |
| | | Chloroform 0.12 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| | | Methyl Tert Butyl Ether 1.4 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |
| JB86794-3 | RW-7814FN-011915 | | | | | |
| | | Chloroform 0.13 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| JB86794-4 | RW-737DNS-011915 | | | | | |
| | | Chloroform 0.18 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| | | Methyl Tert Butyl Ether 0.43 J | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |
| JB86794-5 | TRIP BLANKS | | | | | |
| | | Acetone 0.83 J | 5.0 | 0.76 | ug/l | EPA 524.2 REV 4.1 |
| | | 2-Butanone 0.73 J | 5.0 | 0.32 | ug/l | EPA 524.2 REV 4.1 |

Sample Results

Report of Analysis

Report of Analysis

3.1
3

| | |
|--|--------------------------------|
| Client Sample ID: RW-7833CS-011915 | |
| Lab Sample ID: JB86794-1 | Date Sampled: 01/19/15 |
| Matrix: AQ - Ground Water | Date Received: 01/21/15 |
| Method: EPA 524.2 REV 4.1 | Percent Solids: n/a |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95372.D | 1 | 01/22/15 | MD | n/a | n/a | V1B4510 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.11 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7833CS-011915 | |
| Lab Sample ID: JB86794-1 | Date Sampled: 01/19/15 |
| Matrix: AQ - Ground Water | Date Received: 01/21/15 |
| Method: EPA 524.2 REV 4.1 | Percent Solids: n/a |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.5 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 102% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

| | |
|--|--------------------------------|
| Client Sample ID: RW-7833CS-011915 | Date Sampled: 01/19/15 |
| Lab Sample ID: JB86794-1 | Date Received: 01/21/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117556.D | 1 | 01/26/15 | PS | n/a | n/a | V3C5333 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 73% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 69% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-100CS-011915 | Date Sampled: | 01/19/15 |
| Lab Sample ID: | JB86794-2 | Date Received: | 01/21/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95373.D | 1 | 01/22/15 | MD | n/a | n/a | V1B4510 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.12 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-100CS-011915 | |
| Lab Sample ID: JB86794-2 | Date Sampled: 01/19/15 |
| Matrix: AQ - Ground Water | Date Received: 01/21/15 |
| Method: EPA 524.2 REV 4.1 | Percent Solids: n/a |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.4 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 101% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 77-115% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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3

| | |
|--|--------------------------------|
| Client Sample ID: RW-100CS-011915 | Date Sampled: 01/19/15 |
| Lab Sample ID: JB86794-2 | Date Received: 01/21/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117557.D | 1 | 01/26/15 | PS | n/a | n/a | V3C5333 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 79% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 74% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7814FN-011915 | Date Sampled: 01/19/15 |
| Lab Sample ID: JB86794-3 | Date Received: 01/21/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #2 | 1B95374.D | 1 | 01/22/15 | MD | n/a | n/a | V1B4510 |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #2 | 5.0 ml |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.13 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-7814FN-011915 | Date Sampled: | 01/19/15 |
| Lab Sample ID: | JB86794-3 | Date Received: | 01/21/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 101% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7814FN-011915 | Date Sampled: 01/19/15 |
| Lab Sample ID: JB86794-3 | Date Received: 01/21/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117558.D | 1 | 01/26/15 | PS | n/a | n/a | V3C5333 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 68% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 65% | | 34-135% | | |

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-737DNS-011915 | Date Sampled: 01/19/15 |
| Lab Sample ID: JB86794-4 | Date Received: 01/21/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95375.D | 1 | 01/22/15 | MD | n/a | n/a | V1B4510 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.18 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-737DNS-011915 | |
| Lab Sample ID: JB86794-4 | Date Sampled: 01/19/15 |
| Matrix: AQ - Ground Water | Date Received: 01/21/15 |
| Method: EPA 524.2 REV 4.1 | Percent Solids: n/a |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.43 | 0.50 | 0.056 | ug/l | J |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 103% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 77-115% |

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-737DNS-011915 | Date Sampled: 01/19/15 |
| Lab Sample ID: JB86794-4 | Date Received: 01/21/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117559.D | 1 | 01/26/15 | PS | n/a | n/a | V3C5333 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 74% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 71% | | 34-135% | | |

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|--------------------------------|
| Client Sample ID: TRIP BLANKS | | Date Sampled: 01/19/15 |
| Lab Sample ID: JB86794-5 | | Date Received: 01/21/15 |
| Matrix: AQ - Trip Blank Water | | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | | |
| Project: 090149-04, Kop-Flex, Hanover, MD | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95376.D | 1 | 01/22/15 | MD | n/a | n/a | V1B4510 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | 0.83 | 5.0 | 0.76 | ug/l | J |
| 78-93-3 | 2-Butanone | 0.73 | 5.0 | 0.32 | ug/l | J |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | ND | 0.50 | 0.066 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|--------------------------------|
| Client Sample ID: TRIP BLANKS | | Date Sampled: 01/19/15 |
| Lab Sample ID: JB86794-5 | | Date Received: 01/21/15 |
| Matrix: AQ - Trip Blank Water | | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | | |
| Project: 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 101% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 77-115% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

WSP CHAIN-OF-CUSTODY RECORD

WSP WSP Office Address: 11190 Sunrise Valley Drive Suite 300 Reston, VA 20191

Project Name & Location: Kop-Flex, Hanover, MD Project No.: 39196 WSP Contact Name: Eric Johnson

Sampler's Name: Molly Long Sampler's Signature: [Signature] WSP Contact E-mail: Eric.Johnson@wspgroup.com WSP Contact Phone: (703) 709-6500

Requested Analysis: VOCs (524-2), 14-Dioxane, 8208B, 31W

Requested TAT: Standard

Requested Deliverable: LEVEL II ERIMS EDD, LEVEL III GISKEY EDD, LEVEL IV EQUIS EDD

Preservative: JB86794

| Sample ID | Comp/Grab | Collection Date | | Collection Time | | Matrix | No. of Containers | HU | HU | | | | | | | | Sample Comments |
|-------------------|-----------|-----------------|---------|-----------------|------|--------|-------------------|----|----|--|--|--|--|--|--|--|-----------------|
| | | Start | Stop | Start | Stop | | | | | | | | | | | | |
| RW-7833CS-011915 | Grab | | 1/19/15 | | 1325 | GW | 6 | X | X | | | | | | | | |
| RW-100CS-011915 | Grab | | 1/19/15 | | 1230 | GW | 6 | X | X | | | | | | | | |
| RW-7814FN-011915 | Grab | | 1/19/15 | | 1515 | GW | 6 | X | X | | | | | | | | |
| RW-737 DNS-011915 | Grab | | 1/19/15 | | 1637 | GW | 6 | X | X | | | | | | | | |
| Trip Blanks | - | | 12/8/14 | | 1100 | | 4 | X | X | | | | | | | | U1058 |

Relinquished By (Signature): [Signature] Date: 1/20/15 Time: 1630 Received By (Signature): [Signature] Date: Time: Laboratory Name: Accutest Laboratory Location: Dayton, NJ Laboratory Contact: Tammy McCloskey 732-329-0200

Relinquished By (Signature): [Signature] Date: 1/21/15 Time: 10:00 Received By (Signature): [Signature] Date: Time: Method of Shipment: FedEx Airbill No.: 8066 2671 9081 Shipping Date: 1/20/15 No. of Coolers: 1

Sample Condition (Laboratory Use Only): Temp in °C: 4.1 Received on Ice: Yes Sealed Cooler: NONE Sample Intact: Yes Additional Comments: FedEx # 8066 2671 9081

*Use start and stop time/date for composite and air samples. Include single start time and date for all other samples.

Matrix: GW = Groundwater S = Soil SE = Sediment SW = Surface Water WW = Wastewater A = Air W = Wipe B = Bulk BI = Biota O = Other (detail in comments)

Preservation: I = Ice H = HCl N = HNO₃ S = H₂SO₄ NO = NaOH O = Other (detail in comments)

4.1
4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB86794 Client: _____ Project: _____

Date / Time Received: 1/21/2015 10:00:00 AM Delivery Method: _____ Airbill #'s: _____

Cooler Temps (Initial/Adjusted): #1: (4.1/4); 0

| <u>Cooler Security</u> | <u>Y or N</u> | <u>Y or N</u> |
|---------------------------|--|--|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> <input type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> <input type="checkbox"/> | 4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y or N</u> |
|------------------------------|--|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun |
| 3. Cooler media: | Ice (Bag) |
| 4. No. Coolers: | 1 |

| <u>Quality Control Preservatio</u> | <u>Y or N</u> | <u>N/A</u> |
|------------------------------------|---|------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | |
| 2. Trip Blank listed on COC: | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | |

| <u>Sample Integrity - Documentation</u> | <u>Y or N</u> |
|---|--|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> <input type="checkbox"/> |

| <u>Sample Integrity - Condition</u> | <u>Y or N</u> |
|-------------------------------------|--|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 3. Condition of sample: | Intact |

| <u>Sample Integrity - Instructions</u> | <u>Y or N</u> | <u>N/A</u> |
|--|--|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests: | <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Technical Report for

WSP

090149-04, Kop-Flex, Hanover, MD

39196

Accutest Job Number: JB87107

Sampling Date: 01/23/15

Report to:

WSP
11190 Sunrise Valley Drive Suite 300
Reston, VA 20190
eric.johnson@wspgroup.com

ATTN: Eric Johnson

Total number of pages in report: **22**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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Sample Summary

WSP

Job No: JB87107

090149-04, Kop-Flex, Hanover, MD
 Project No: 39196

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|----------|----------|--------|------------------|--------------------|
| | Date | Time By | | Code | Type | |
| JB87107-1 | 01/23/15 | 10:30 ML | 01/24/15 | AQ | Ground Water | RW-7803FN-01232015 |
| JB87107-2 | 01/23/15 | 11:26 ML | 01/24/15 | AQ | Ground Water | RW-7843CS-012315 |
| JB87107-3 | 01/23/15 | 12:53 ML | 01/24/15 | AQ | Ground Water | RW-7831CS-012315 |
| JB87107-4 | 01/23/15 | 13:20 ML | 01/24/15 | AQ | Ground Water | RW-7831CS-012315-F |
| JB87107-5 | 01/23/15 | 16:48 ML | 01/24/15 | AQ | Trip Blank Water | TRIP BLANKS |

Summary of Hits

Job Number: JB87107
Account: WSP
Project: 090149-04, Kop-Flex, Hanover, MD
Collected: 01/23/15

| Lab Sample ID | Client Sample ID | Result/ Analyte | RL | MDL | Units | Method |
|---------------|------------------|--------------------|----|-----|-------|--------|
|---------------|------------------|--------------------|----|-----|-------|--------|

JB87107-1 RW-7803FN-01232015

| | | | | | |
|-------------------------|-----|------|-------|------|-------------------|
| Methyl Tert Butyl Ether | 2.0 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |
|-------------------------|-----|------|-------|------|-------------------|

JB87107-2 RW-7843CS-012315

No hits reported in this sample.

JB87107-3 RW-7831CS-012315

| | | | | | |
|-------------------------|--------|------|-------|------|-------------------|
| Chloroform | 0.39 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| Methyl Tert Butyl Ether | 0.66 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |

JB87107-4 RW-7831CS-012315-F

| | | | | | |
|-------------------------|--------|------|-------|------|-------------------|
| Chloroform | 0.42 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| Methyl Tert Butyl Ether | 0.67 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |

JB87107-5 TRIP BLANKS

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7803FN-01232015 | |
| Lab Sample ID: JB87107-1 | Date Sampled: 01/23/15 |
| Matrix: AQ - Ground Water | Date Received: 01/24/15 |
| Method: EPA 524.2 REV 4.1 | Percent Solids: n/a |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95409.D | 1 | 01/26/15 | MD | n/a | n/a | V1B4512 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | ND | 0.50 | 0.066 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

MDL = Method Detection Limit
 J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-7803FN-01232015 | Date Sampled: | 01/23/15 |
| Lab Sample ID: | JB87107-1 | Date Received: | 01/24/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 2.0 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 101% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

| | |
|--|--------------------------------|
| Client Sample ID: RW-7803FN-01232015 | Date Sampled: 01/23/15 |
| Lab Sample ID: JB87107-1 | Date Received: 01/24/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117560.D | 1 | 01/26/15 | PS | n/a | n/a | V3C5333 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 76% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 74% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-7843CS-012315 | Date Sampled: | 01/23/15 |
| Lab Sample ID: | JB87107-2 | Date Received: | 01/24/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95410.D | 1 | 01/26/15 | MD | n/a | n/a | V1B4512 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | ND | 0.50 | 0.066 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-7843CS-012315 | Date Sampled: | 01/23/15 |
| Lab Sample ID: | JB87107-2 | Date Received: | 01/24/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 102% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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3

| | |
|--|--------------------------------|
| Client Sample ID: RW-7843CS-012315 | Date Sampled: 01/23/15 |
| Lab Sample ID: JB87107-2 | Date Received: 01/24/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117561.D | 1 | 01/26/15 | PS | n/a | n/a | V3C5333 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 76% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 75% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7831CS-012315 | Date Sampled: 01/23/15 |
| Lab Sample ID: JB87107-3 | Date Received: 01/24/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95411.D | 1 | 01/26/15 | MD | n/a | n/a | V1B4512 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.39 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7831CS-012315 | Date Sampled: 01/23/15 |
| Lab Sample ID: JB87107-3 | Date Received: 01/24/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.66 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 105% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7831CS-012315 | Date Sampled: 01/23/15 |
| Lab Sample ID: JB87107-3 | Date Received: 01/24/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117562.D | 1 | 01/26/15 | PS | n/a | n/a | V3C5333 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 78% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 75% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-7831CS-012315-F | Date Sampled: | 01/23/15 |
| Lab Sample ID: | JB87107-4 | Date Received: | 01/24/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95414.D | 1 | 01/26/15 | MD | n/a | n/a | V1B4512 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.42 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-7831CS-012315-F | Date Sampled: | 01/23/15 |
| Lab Sample ID: | JB87107-4 | Date Received: | 01/24/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.67 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 102% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7831CS-012315-F | Date Sampled: 01/23/15 |
| Lab Sample ID: JB87107-4 | Date Received: 01/24/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117563.D | 1 | 01/26/15 | PS | n/a | n/a | V3C5333 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 76% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 74% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | TRIP BLANKS | Date Sampled: | 01/23/15 |
| Lab Sample ID: | JB87107-5 | Date Received: | 01/24/15 |
| Matrix: | AQ - Trip Blank Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95415.D | 1 | 01/26/15 | MD | n/a | n/a | V1B4512 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | ND | 0.50 | 0.066 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | TRIP BLANKS | Date Sampled: | 01/23/15 |
| Lab Sample ID: | JB87107-5 | Date Received: | 01/24/15 |
| Matrix: | AQ - Trip Blank Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 104% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

3. ^{WTS}
GW

JB 87107

| WSP CHAIN-OF-CUSTODY RECORD | | | | | | | | | | Requested Analysis | | | | | | | | | | Page 1 of 1 | | | |
|--|--|---|--|--|--|--|--|--|--|--|--|---------------------------|--|---------------------------------|--|-------------------------------------|--|-------------------|--|--|--|------------------------|--|
| WSP WSP Office Address: 11190 Sunrise Valley Drive Ste. 300 Reston, VA 20191 | | | | | | | | | | Project Name & Location: Cap-Flex Hanover MD Project No.: 39196 WSP Contact Name: Eric Johnson WSP Contact E-mail: Eric.Johnson@wspgroup.com WSP Contact Phone: (703) 799-6500 | | | | | | | | | | No: 001177 Requested TAT: Standard Requested Deliverable: <input type="checkbox"/> LEVEL II <input type="checkbox"/> ERIMS EDD <input checked="" type="checkbox"/> LEVEL III <input type="checkbox"/> GISKEY EDD <input type="checkbox"/> LEVEL IV <input type="checkbox"/> EQUIS EDD | | | |
| Sampler's Name: Molly Long Taylor Burks | | Sampler's Signature: <i>Molly Long</i> <i>Taylor Burks</i> | | Collection Date: 1/23/15 | | | | | | Collection Time: 1030 | | | | | | Matrix: GW No. of Containers: 6 | | HCl: X Hg: X | | Preservative: 1 | | Sample Comments: V1106 | |
| RW-7803FN - 01232015 | | Grab | | 1/23/15 | | 1030 | | GW | | 6 | | X X | | 1 | | | | | | | | | |
| RW-7843CS - 012315 | | Grab | | 1/23/15 | | 1126 | | GW | | 6 | | X X | | 2 | | | | | | | | | |
| RW-7831CS - 012315 | | Grab | | 1/23/15 | | 1253 | | GW | | 6 | | X X | | 3 | | | | | | | | | |
| RW-7831CS - 012315-F | | Grab | | 1/23/15 | | 1320 | | GW | | 6 | | X X | | 4 | | | | | | | | | |
| Trip Blanks | | - | | 1/21/15 | | 1648 | | - | | 4 | | X X | | 5 | | | | | | | | | |
| Relinquished By (Signature): <i>Molly Long</i> | | Date: 1/23/15 | | Time: 1700 | | Received By (Signature): <i>FedEx</i> | | Date: 1-24-15 | | Time: 10:15 | | Laboratory Name: Accutest | | Laboratory Location: Dayton, NJ | | Laboratory Contact: Tammy McCloskey | | 732-329-0200 | | | | | |
| Relinquished By (Signature): | | Date: | | Time: | | Received By (Signature): | | Date: | | Time: | | Method of Shipment: FedEx | | Airbill No.: 8066 2671 9059 | | Shipping Date: 1/23/15 | | No. of Coolers: 1 | | | | | |
| Sample Condition (Laboratory Use Only): | | Temp in °C: 1.4°C | | Received on Ice: <input checked="" type="checkbox"/> | | Sealed Cooler: <input checked="" type="checkbox"/> | | Sample Intact: <input checked="" type="checkbox"/> | | Additional Comments: FX# 8066 2671 9059 | | | | | | | | | | | | | |
| *Use start and stop time/date for composite and air samples. Include single start time and date for all other samples. Matrix: GW = Groundwater S = Soil SE = Sediment SW = Surface Water WW = Wastewater A = Air W = Wipe B = Bulk BI = Biota O = Other (detail in comments) Preservation: I = Ice H = HCl N = HNO ₃ S = H ₂ SO ₄ NO = NaOH O = Other (detail in comments) | | | | | | | | | | | | | | | | | | | | | | | |

?A Dem

TRE 149 JK

4.1
4

Accutest Job Number: JB87107 **Client:** _____ **Project:** _____
Date / Time Received: 1/24/2015 10:15:00 AM **Delivery Method:** _____ **Airbill #'s:** _____
Cooler Temps (Initial/Adjusted): #1: (1.4/1.3); 0

| <u>Cooler Security</u> | <u>Y</u> | <u>or</u> | <u>N</u> | | <u>Y</u> | <u>or</u> | <u>N</u> |
|---------------------------|-------------------------------------|-----------|--------------------------|-----------------------|-------------------------------------|-----------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Cooler temp verification: | _____ IR Gun | | |
| 3. Cooler media: | _____ Ice (Bag) | | |
| 4. No. Coolers: | _____ 1 | | |

| <u>Quality Control Preservation</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|-------------------------------------|-------------------------------------|-----------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |

| <u>Sample Integrity - Documentation</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|---|-------------------------------------|-----------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

| <u>Sample Integrity - Condition</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|-------------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Condition of sample: | _____ Intact | | |

| <u>Sample Integrity - Instructions</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Technical Report for

WSP

090149-04, Kop-Flex, Hanover, MD

Accutest Job Number: JB87302

Sampling Date: 01/29/15

Report to:

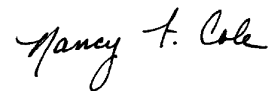
WSP
11190 Sunrise Valley Drive Suite 300
Reston, VA 20190
eric.johnson@wspgroup.com

ATTN: Eric Johnson

Total number of pages in report: **22**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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Sample Summary

WSP

Job No: JB87302

090149-04, Kop-Flex, Hanover, MD

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|----------|----------|--------|------------------|-------------------|
| | Date | Time By | | Code | Type | |
| JB87302-1 | 01/29/15 | 12:38 TB | 01/30/15 | AQ | Ground Water | RW-1201KL-012915F |
| JB87302-2 | 01/29/15 | 12:45 TB | 01/30/15 | AQ | Ground Water | RW-1201KL-012915 |
| JB87302-3 | 01/29/15 | 13:42 TB | 01/30/15 | AQ | Ground Water | RW-1204KL-012915F |
| JB87302-4 | 01/29/15 | 14:40 TB | 01/30/15 | AQ | Ground Water | RW-825REE-012915 |
| JB87302-5 | 01/29/15 | 14:40 TB | 01/30/15 | AQ | Trip Blank Water | TRIP BLANK |

Summary of Hits

Job Number: JB87302
Account: WSP
Project: 090149-04, Kop-Flex, Hanover, MD
Collected: 01/29/15

| Lab Sample ID | Client Sample ID | Result/ Analyte | RL | MDL | Units | Method |
|---------------|------------------|--------------------|----|-----|-------|--------|
|---------------|------------------|--------------------|----|-----|-------|--------|

JB87302-1 RW-1201KL-012915F

| | | | | | |
|-------------------------|--------|------|-------|------|-------------------|
| Chloroform | 0.15 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| Methyl Tert Butyl Ether | 3.7 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |

JB87302-2 RW-1201KL-012915

| | | | | | |
|-------------------------|--------|------|-------|------|-------------------|
| Chloroform | 0.15 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| Methyl Tert Butyl Ether | 4.2 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |

JB87302-3 RW-1204KL-012915F

| | | | | | |
|-------------------------|--------|------|-------|------|-------------------|
| Chloroform | 0.31 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| Methyl Tert Butyl Ether | 1.2 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |

JB87302-4 RW-825REE-012915

| | | | | | |
|-------------------------|--------|------|-------|------|-------------------|
| Chloroform | 0.21 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| Methyl Tert Butyl Ether | 0.27 J | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |

JB87302-5 TRIP BLANK

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-1201KL-012915F | Date Sampled: | 01/29/15 |
| Lab Sample ID: | JB87302-1 | Date Received: | 01/30/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95491.D | 1 | 01/30/15 | MD | n/a | n/a | V1B4516 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.15 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-1201KL-012915F | Date Sampled: | 01/29/15 |
| Lab Sample ID: | JB87302-1 | Date Received: | 01/30/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 3.7 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 100% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

| | |
|--|--------------------------------|
| Client Sample ID: RW-1201KL-012915F | Date Sampled: 01/29/15 |
| Lab Sample ID: JB87302-1 | Date Received: 01/30/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117678.D | 1 | 01/30/15 | PS | n/a | n/a | V3C5338 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 82% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 83% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-1201KL-012915 | Date Sampled: 01/29/15 |
| Lab Sample ID: JB87302-2 | Date Received: 01/30/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95492.D | 1 | 01/30/15 | MD | n/a | n/a | V1B4516 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.15 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-1201KL-012915 | Date Sampled: | 01/29/15 |
| Lab Sample ID: | JB87302-2 | Date Received: | 01/30/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 4.2 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 102% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 77-115% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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3

| | |
|--|--------------------------------|
| Client Sample ID: RW-1201KL-012915 | Date Sampled: 01/29/15 |
| Lab Sample ID: JB87302-2 | Date Received: 01/30/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117679.D | 1 | 01/30/15 | PS | n/a | n/a | V3C5338 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 85% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 85% | | 34-135% | | |

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-1204KL-012915F | Date Sampled: 01/29/15 |
| Lab Sample ID: JB87302-3 | Date Received: 01/30/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95493.D | 1 | 01/30/15 | MD | n/a | n/a | V1B4516 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.31 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-1204KL-012915F | Date Sampled: | 01/29/15 |
| Lab Sample ID: | JB87302-3 | Date Received: | 01/30/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.2 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 101% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-1204KL-012915F | Date Sampled: 01/29/15 |
| Lab Sample ID: JB87302-3 | Date Received: 01/30/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117680.D | 1 | 01/30/15 | PS | n/a | n/a | V3C5338 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 87% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-825REE-012915 | Date Sampled: | 01/29/15 |
| Lab Sample ID: | JB87302-4 | Date Received: | 01/30/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95494.D | 1 | 01/30/15 | MD | n/a | n/a | V1B4516 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.21 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-825REE-012915 | Date Sampled: | 01/29/15 |
| Lab Sample ID: | JB87302-4 | Date Received: | 01/30/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.27 | 0.50 | 0.056 | ug/l | J |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 103% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.4
3

| | |
|--|--------------------------------|
| Client Sample ID: RW-825REE-012915 | Date Sampled: 01/29/15 |
| Lab Sample ID: JB87302-4 | Date Received: 01/30/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117681.D | 1 | 01/30/15 | PS | n/a | n/a | V3C5338 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 78% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 80% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | TRIP BLANK | Date Sampled: | 01/29/15 |
| Lab Sample ID: | JB87302-5 | Date Received: | 01/30/15 |
| Matrix: | AQ - Trip Blank Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95495.D | 1 | 01/30/15 | MD | n/a | n/a | V1B4516 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | ND | 0.50 | 0.066 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | TRIP BLANK | Date Sampled: | 01/29/15 |
| Lab Sample ID: | JB87302-5 | Date Received: | 01/30/15 |
| Matrix: | AQ - Trip Blank Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 102% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

WSP CHAIN-OF-CUSTODY RECORD

WSP WSP Office Address: 1190 Sunrise Valley Drive Ste. 300 Reston, VA 20191

Requested Analysis: *(Blank)*

Page *1* of *1*

No: 000185

Project Name & Location: Koe Flex Hanover MD Project No: 39196 WSP Contact Name: Eric Johnson

Requested TAT: Standard

Sampler's Name: Molly Long Taylor Berley Sampler's Signature: *(Signature)* WSP Contact E-mail: Eric.Johnson@wspgroup.com WSP Contact Phone: (703) 709-6500

Requested Deliverable: LEVEL II ERIMS EDD LEVEL III GISKEY EDD LEVEL IV EQUIS EDD

Preservative: JB87302

| Sample ID | Comp Grab | Collection Date | | Collection Time | | Matrix | No. of Containers | W1 | W2 | W3 | W4 | W5 | W6 | W7 | W8 | W9 | W10 | Sample Comments | |
|-------------------|-----------|-----------------|---------|-----------------|------|--------|-------------------|----|----|----|----|----|----|----|----|----|-----|-----------------|-------|
| | | Start | Stop | Start | Stop | | | | | | | | | | | | | | |
| RW-1201KL-012915F | G | | 1/29/15 | | 1238 | GW | 6 | X | X | | | | | | | | | | |
| RW-1201KL-012915 | G | | 1/29/15 | | 1245 | GW | 6 | X | X | | | | | | | | | | 11128 |
| RW-1204KL-012915F | G | | 1/29/15 | | 1342 | GW | 6 | X | X | | | | | | | | | | |
| RW-825REE-012915 | G | | 1/29/15 | | 1440 | GW | 6 | X | X | | | | | | | | | | |
| Trip Blank | | | 1/21/15 | | 1648 | | 4 | X | X | | | | | | | | | | |

Relinquished By (Signature): *(Signature)* Date: 1/29/15 Time: 17:20 Received By (Signature): *(Signature)* Date: *(Blank)* Time: *(Blank)* Laboratory Name: Accutest Laboratory Location: Dayton, NJ Laboratory Contact: Tammy McCloskey 732-329-0200

Relinquished By (Signature): *(Signature)* Date: 1/30/15 Time: 10:00 Received By (Signature): *(Signature)* Date: *(Blank)* Time: *(Blank)* Method of Shipment: FedEx Airbill No.: 8066 8862 7041 Shipping Date: 1/29/15 No. of Coolers: 1

Sample Condition (Laboratory Use Only): Temp in °C: 4.2°C Received on Ice: Yes Sealed Cooler: NONE Sample Intact: Yes Additional Comments: FedEx # 8066 8862 7041

*Use start and stop time/date for composite and air samples. Include single start time and date for all other samples.
Matrix: GW = Groundwater S = Soil SE = Sediment SW = Surface Water WW = Wastewater A = Air W = Wipe B = Bulk Bi = Biota O = Other (detail in comments)
Preservation: I = Ice H = HCl N = HNO₃ S = H₂SO₄ NO = NaOH O = Other (detail in comments)

4.1
4

JB87302: Chain of Custody

Page 1 of 2



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB87302 Client: _____ Project: _____
 Date / Time Received: 1/30/2015 10:00:00 AM Delivery Method: _____ Airbill #s: _____
 Cooler Temps (Initial/Adjusted): #1: (4.2/4.1); 0

| <u>Cooler Security</u> | <u>Y</u> | <u>or</u> | <u>N</u> | | <u>Y</u> | <u>or</u> | <u>N</u> |
|---------------------------|-------------------------------------|-----------|--------------------------|-----------------------|-------------------------------------|-----------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Cooler temp verification: | <u>IR Gun</u> | | |
| 3. Cooler media: | <u>Ice (Bag)</u> | | |
| 4. No. Coolers: | <u>1</u> | | |

| <u>Quality Control Preservatio</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|------------------------------------|-------------------------------------|-----------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> |

| <u>Sample Integrity - Documentation</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|---|-------------------------------------|-----------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

| <u>Sample Integrity - Condition</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|-------------------------------------|-------------------------------------|-----------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Condition of sample: | <u>Intact</u> | | |

| <u>Sample Integrity - Instructions</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

JB87302: Chain of Custody

Page 2 of 2

4.1
4

Technical Report for

WSP

090149-04, Kop-Flex, Hanover, MD

39196

Accutest Job Number: JB87737

Sampling Date: 02/05/15

Report to:

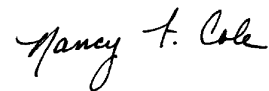
WSP
11190 Sunrise Valley Drive Suite 300
Reston, VA 20190
eric.johnson@wspgroup.com

ATTN: Eric Johnson

Total number of pages in report: **13**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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Sample Summary

WSP

Job No: JB87737

090149-04, Kop-Flex, Hanover, MD
Project No: 39196

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|----------|----------|-------------|------------------|------------------|
| JB87737-1 | 02/05/15 | 11:50 ML | 02/06/15 | AQ | Ground Water | RW-7859CS-020515 |
| JB87737-2 | 02/05/15 | 11:50 ML | 02/06/15 | AQ | Trip Blank Water | TRIP BLANK |

Summary of Hits

Job Number: JB87737
Account: WSP
Project: 090149-04, Kop-Flex, Hanover, MD
Collected: 02/05/15

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

JB87737-1 RW-7859CS-020515

| | | | | | |
|-------------------------|--------|------|-------|------|-------------------|
| Chloroform | 0.47 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| Methyl Tert Butyl Ether | 1.1 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |

JB87737-2 TRIP BLANK

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7859CS-020515 | Date Sampled: 02/05/15 |
| Lab Sample ID: JB87737-1 | Date Received: 02/06/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #2 | 1B95616.D | 1 | 02/09/15 | MD | n/a | n/a | V1B4524 |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #2 | 5.0 ml |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.47 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-7859CS-020515 | Date Sampled: | 02/05/15 |
| Lab Sample ID: | JB87737-1 | Date Received: | 02/06/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.1 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 100% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

| | |
|--|--------------------------------|
| Client Sample ID: RW-7859CS-020515 | Date Sampled: 02/05/15 |
| Lab Sample ID: JB87737-1 | Date Received: 02/06/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | S192026.D | 1 | 02/09/15 | VC | n/a | n/a | VS7870 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 70% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 76% | | 34-135% | | |

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | TRIP BLANK | Date Sampled: | 02/05/15 |
| Lab Sample ID: | JB87737-2 | Date Received: | 02/06/15 |
| Matrix: | AQ - Trip Blank Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95617.D | 1 | 02/09/15 | MD | n/a | n/a | V1B4524 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | ND | 0.50 | 0.066 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | TRIP BLANK | Date Sampled: | 02/05/15 |
| Lab Sample ID: | JB87737-2 | Date Received: | 02/06/15 |
| Matrix: | AQ - Trip Blank Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 100% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

JB87737

| WSP CHAIN-OF-CUSTODY RECORD | | | | | | | | | | Requested Analysis | | | | | | Page 1 of 1 | |
|--|-----------|--|---------|---|----------------------|----------------------|--|-----------------------------|-----|--|-------------------------|--|--|-----------------|--|--|--|
| WSP | | WSP Office Address 1190 Sunrise Valley Dr. Suite 200 Reston, VA 20191 | | | | | | | | (524-2) 14-Dioxane (B260B) with SIM | | | | | | No 000507 | |
| Project Name & Location Kopflex Hanover MD | | Project No. 39196 | | WSP Contact Name Eric Johnson | | | | | | | | | | | | Requested TAT Standard | |
| Sampler's Name Molly Long Taylor Berts | | Sampler's Signature <i>[Signature]</i> | | WSP Contact E-mail Eric.Johnson@wspgroup.com | | | | | | | | | | | | Requested Deliverable <input type="checkbox"/> LEVEL II <input type="checkbox"/> ERIMS EDD <input checked="" type="checkbox"/> LEVEL III <input type="checkbox"/> GISKEY EDD <input type="checkbox"/> LEVEL IV <input type="checkbox"/> EQUIS EDD | |
| | | WSP Contact Phone (703) 709-6500 | | | | | | | | | | | | | | | |
| Sample ID | Comp/Grab | Collection Date | | Collection Time | | Matrix | No. of Containers | Preservative | | | | | | Sample Comments | | | |
| | | Start | Stop | Start | Stop | | | HCl | HCl | | | | | | | | |
| RW-7859CS-020515 Trip Blank | Grab | 2/5/15 | 1/21/15 | 1150 | 1648 | GW | 6 4 | X | X | | | 1 2 | | (V1176) | | | |
| Relinquished By (Signature) <i>[Signature]</i> | | Date | Time | Received By (Signature) <i>[Signature]</i> | | Date | Time | Laboratory Name Accutest | | Laboratory Location Dayton, NJ | | Laboratory Contact Tomy M. Ciosek 732-329-0200 | | | | | |
| Relinquished By (Signature) <i>[Signature]</i> | | Date | Time | Received By (Signature) <i>[Signature]</i> | | Date | Time | Method of Shipment FedEx | | Airbill No. 8066 89627041 | Shipping Date 2/5/15 | No. of Coolers 1 | | | | | |
| Sample Condition (Laboratory Use Only) | | Temp in °C 1.905 | | Received on Ice Yes | Sealed Cooler Yes | Sample Intact Yes | Additional Comments FedEx H 8066 26719092 | | | | | | | | | | |
| *Use start and stop time/date for composite and air samples. Include single start time and date for all other samples. Matrix: GW = Groundwater S = Soil SE = Sediment SW = Surface Water WW = Wastewater A = Air W = Wipe B = Bulk Bi = Biota O = Other (detail in comments) Preservation: I = Ice H = HCl N = HNO ₃ S = H ₂ SO ₄ NO = NaOH O = Other (detail in comments) | | | | | | | | | | | | | | | | | |

4.1
4

[Handwritten initials]

[Handwritten initials]

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB87737 **Client:** _____ **Project:** _____
Date / Time Received: 2/6/2015 10:15:00 AM **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (1.9/1.6); 0

| | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|--|
| Cooler Security | | <u>Y</u> or <u>N</u> | | <u>Y</u> or <u>N</u> |
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> <input type="checkbox"/> |

| | | |
|------------------------------|-------------------------------------|--------------------------|
| Cooler Temperature | | <u>Y</u> or <u>N</u> |
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

| | | |
|-------------------------------------|--|--------------------------|
| Quality Control Preservation | <u>Y</u> or <u>N</u> | <u>N/A</u> |
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |

| | | |
|---|-------------------------------------|--------------------------|
| Sample Integrity - Documentation | | <u>Y</u> or <u>N</u> |
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| | | |
|-------------------------------------|-------------------------------------|--------------------------|
| Sample Integrity - Condition | | <u>Y</u> or <u>N</u> |
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

| | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Sample Integrity - Instructions | | <u>Y</u> or <u>N</u> | <u>N/A</u> |
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

4.1
4

Technical Report for

WSP

090149-04, Kop-Flex, Hanover, MD

39196

Accutest Job Number: JB88131

Sampling Dates: 02/10/15 - 02/11/15

Report to:

WSP
11190 Sunrise Valley Drive Suite 300
Reston, VA 20190
eric.johnson@wspgroup.com

ATTN: Eric Johnson

Total number of pages in report: **25**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy F. Cole

Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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Sample Summary

WSP

Job No: JB88131

090149-04, Kop-Flex, Hanover, MD
 Project No: 39196

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|----------|----------|--------|------------------|-------------------|
| | Date | Time By | | Code | Type | |
| JB88131-1 | 02/10/15 | 11:17 RW | 02/12/15 | AQ | Ground Water | RW-7847CS-021015 |
| JB88131-2 | 02/10/15 | 12:20 RW | 02/12/15 | AQ | Ground Water | RW-734DNS-021015F |
| JB88131-3 | 02/10/15 | 12:31 RW | 02/12/15 | AQ | Ground Water | RW-734DNS-021015 |
| JB88131-4 | 02/11/15 | 14:41 RW | 02/12/15 | AQ | Trip Blank Water | TRIP BLANK |
| JB88131-5 | 02/11/15 | 13:52 RW | 02/12/15 | AQ | Ground Water | RW-854REE-021115 |
| JB88131-6 | 02/11/15 | 14:41 RW | 02/12/15 | AQ | Ground Water | RW-7845CS-021115 |

Summary of Hits

Job Number: JB88131
Account: WSP
Project: 090149-04, Kop-Flex, Hanover, MD
Collected: 02/10/15 thru 02/11/15

| Lab Sample ID | Client Sample ID | Result/ Analyte | RL | MDL | Units | Method |
|------------------|--------------------------|------------------------------|------|-------|-------|-------------------|
| JB88131-1 | RW-7847CS-021015 | | | | | |
| | | Chloroform 0.13 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| | | Methyl Tert Butyl Ether 1.7 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |
| JB88131-2 | RW-734DNS-021015F | | | | | |
| | | Chloroform 0.62 | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| | | Methyl Tert Butyl Ether 0.84 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |
| JB88131-3 | RW-734DNS-021015 | | | | | |
| | | Chloroform 0.62 | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| | | Methyl Tert Butyl Ether 0.84 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |
| JB88131-4 | TRIP BLANK | | | | | |
| | | Acetone 1.1 J | 5.0 | 0.76 | ug/l | EPA 524.2 REV 4.1 |
| | | Methylene chloride 0.50 | 0.50 | 0.051 | ug/l | EPA 524.2 REV 4.1 |
| JB88131-5 | RW-854REE-021115 | | | | | |
| | | Chloroform 0.22 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| | | 1,2-Dichloroethane 0.77 | 0.50 | 0.030 | ug/l | EPA 524.2 REV 4.1 |
| | | Methyl Tert Butyl Ether 1.7 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |
| JB88131-6 | RW-7845CS-021115 | | | | | |
| | | Chloroform 0.19 J | 0.50 | 0.066 | ug/l | EPA 524.2 REV 4.1 |
| | | Methyl Tert Butyl Ether 1.0 | 0.50 | 0.056 | ug/l | EPA 524.2 REV 4.1 |

Sample Results

Report of Analysis

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7847CS-021015 | |
| Lab Sample ID: JB88131-1 | Date Sampled: 02/10/15 |
| Matrix: AQ - Ground Water | Date Received: 02/12/15 |
| Method: EPA 524.2 REV 4.1 | Percent Solids: n/a |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95696.D | 1 | 02/13/15 | MD | n/a | n/a | V1B4528 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.13 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-7847CS-021015 | Date Sampled: | 02/10/15 |
| Lab Sample ID: | JB88131-1 | Date Received: | 02/12/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.7 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 100% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

| | |
|--|--------------------------------|
| Client Sample ID: RW-7847CS-021015 | Date Sampled: 02/10/15 |
| Lab Sample ID: JB88131-1 | Date Received: 02/12/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117984.D | 1 | 02/13/15 | PS | n/a | n/a | V3C5354 |
| Run #2 | | | | | | | |

| | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 96% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 102% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-734DNS-021015F | |
| Lab Sample ID: JB88131-2 | Date Sampled: 02/10/15 |
| Matrix: AQ - Ground Water | Date Received: 02/12/15 |
| Method: EPA 524.2 REV 4.1 | Percent Solids: n/a |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95697.D | 1 | 02/13/15 | MD | n/a | n/a | V1B4528 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.62 | 0.50 | 0.066 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-734DNS-021015F | Date Sampled: | 02/10/15 |
| Lab Sample ID: | JB88131-2 | Date Received: | 02/12/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.84 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 101% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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3

| | |
|--|--------------------------------|
| Client Sample ID: RW-734DNS-021015F | Date Sampled: 02/10/15 |
| Lab Sample ID: JB88131-2 | Date Received: 02/12/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117985.D | 1 | 02/13/15 | PS | n/a | n/a | V3C5354 |
| Run #2 | | | | | | | |

| | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 90% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-734DNS-021015 | |
| Lab Sample ID: JB88131-3 | Date Sampled: 02/10/15 |
| Matrix: AQ - Ground Water | Date Received: 02/12/15 |
| Method: EPA 524.2 REV 4.1 | Percent Solids: n/a |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95698.D | 1 | 02/13/15 | MD | n/a | n/a | V1B4528 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.62 | 0.50 | 0.066 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-734DNS-021015 | Date Sampled: | 02/10/15 |
| Lab Sample ID: | JB88131-3 | Date Received: | 02/12/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.84 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 100% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-734DNS-021015 | Date Sampled: 02/10/15 |
| Lab Sample ID: JB88131-3 | Date Received: 02/12/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117986.D | 1 | 02/13/15 | PS | n/a | n/a | V3C5354 |
| Run #2 | | | | | | | |

| | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 95% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 34-135% | | |

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|--------------------------------|
| Client Sample ID: TRIP BLANK | | Date Sampled: 02/11/15 |
| Lab Sample ID: JB88131-4 | | Date Received: 02/12/15 |
| Matrix: AQ - Trip Blank Water | | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | | |
| Project: 090149-04, Kop-Flex, Hanover, MD | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95699.D | 1 | 02/13/15 | MD | n/a | n/a | V1B4528 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | 1.1 | 5.0 | 0.76 | ug/l | J |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | ND | 0.50 | 0.066 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | TRIP BLANK | Date Sampled: | 02/11/15 |
| Lab Sample ID: | JB88131-4 | Date Received: | 02/12/15 |
| Matrix: | AQ - Trip Blank Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | 0.50 | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 100% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.5
3

| | | |
|--|--|--------------------------------|
| Client Sample ID: RW-854REE-021115 | | |
| Lab Sample ID: JB88131-5 | | Date Sampled: 02/11/15 |
| Matrix: AQ - Ground Water | | Date Received: 02/12/15 |
| Method: EPA 524.2 REV 4.1 | | Percent Solids: n/a |
| Project: 090149-04, Kop-Flex, Hanover, MD | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B95700.D | 1 | 02/13/15 | MD | n/a | n/a | V1B4528 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.22 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | 0.77 | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-854REE-021115 | Date Sampled: | 02/11/15 |
| Lab Sample ID: | JB88131-5 | Date Received: | 02/12/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.7 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 100% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.5
3

| | |
|--|--------------------------------|
| Client Sample ID: RW-854REE-021115 | Date Sampled: 02/11/15 |
| Lab Sample ID: JB88131-5 | Date Received: 02/12/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117987.D | 1 | 02/13/15 | PS | n/a | n/a | V3C5354 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 98% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 102% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-7845CS-021115 | Date Sampled: | 02/11/15 |
| Lab Sample ID: | JB88131-6 | Date Received: | 02/12/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #2 | 1B95701.D | 1 | 02/13/15 | MD | n/a | n/a | V1B4528 |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #2 | 5.0 ml |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.76 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.32 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.028 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.062 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.054 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.034 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.038 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.099 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.028 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.17 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.021 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.051 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.023 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.070 | ug/l | |
| 67-66-3 | Chloroform | 0.19 | 0.50 | 0.066 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.078 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.040 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.028 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.092 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.026 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.083 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.061 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.12 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.048 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.030 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.050 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.064 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.036 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.044 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.047 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.060 | ug/l | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-7845CS-021115 | Date Sampled: | 02/11/15 |
| Lab Sample ID: | JB88131-6 | Date Received: | 02/12/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.021 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.021 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.067 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.026 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.022 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.024 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.049 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.038 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.12 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.051 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.093 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.051 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 1.0 | 0.50 | 0.056 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.18 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.050 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.033 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.053 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.027 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.038 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.059 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.059 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.066 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.045 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.081 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.075 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.047 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.071 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.030 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.080 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.043 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.11 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.046 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.046 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 99% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.6
3

| | |
|--|--------------------------------|
| Client Sample ID: RW-7845CS-021115 | Date Sampled: 02/11/15 |
| Lab Sample ID: JB88131-6 | Date Received: 02/12/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C117988.D | 1 | 02/13/15 | PS | n/a | n/a | V3C5354 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 96% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW

| | | | | | | | | | | | | | | |
|---|---|---|-----------------|--|-----------------|---|---------------------------|-----------------------------|--|-----------------------------------|--------------------------|---|--|----------------------|
| WSP | | WSP CHAIN-OF-CUSTODY RECORD | | | | | Requested Analysis | | | | | Page 1 of 1 | | |
| WSP Office Address 1190 Sunrise Valley Drive, Suite 309 Reston, VA 20191 | | Project No. 39196 | | WSP Contact Name Eric Johnson | | | Requested TAT Standard | | | | | No 000508 | | |
| Project Name & Location Kaplex, Hanover, MD | | Sampler's Name Molly Long Rob Wallace | | Sampler's Signature <i>Molly Long</i> | | WSP Contact E-mail Eric.Johnson@wspgroup.com | | | Requested Deliverable <input type="checkbox"/> LEVEL II <input type="checkbox"/> ERIMS EDD <input checked="" type="checkbox"/> LEVEL III <input type="checkbox"/> GISKEY EDD <input type="checkbox"/> LEVEL IV <input type="checkbox"/> EQUIS EDD | | | | | |
| Sample ID | | Temp in °C | Collection Date | | Collection Time | | Matrix | No. of Containers | Preservative | | | | | Sample Comments |
| RW-7847CS-021015 | G | | 2/10/15 | 1117 | GW | 6 | X | X | | | | | | JB88131 (V12) |
| RW-734DNS-021015F | G | | 2/10/15 | 1220 | GW | 6 | X | X | | | | | | |
| RW-734DNS-021015 | G | | 2/10/15 | 1231 | GW | 6 | X | X | | | | | | |
| Trip Blank | | | 2/10/15 | 0936 | | 4 | X | X | | | | | | |
| RW-854REE-021115 | G | | 2/11/15 | 1352 | GW | 6 | X | X | | | | | | |
| RW-7845CS-021115 | G | | 2/11/15 | 1441 | GW | 6 | X | X | | | | | | |
| Relinquished By (Signature) <i>Molly Long</i> | | Date 2/11/15 | Time 1800 | Received By (Signature) <i>Felix</i> | | Date | Time | Laboratory Name Accutest | | Laboratory Location Dayton, NJ | | Laboratory Contact Tammy McCloskey 938-329-0200 | | |
| Relinquished By (Signature) <i>Felix</i> | | Date 2/11/15 | Time 04:30 | Received By (Signature) <i>Felix</i> | | Date | Time | Method of Shipment FedEx | | Airbill No. 806626719107 | Shipping Date 2/11/15 | No. of Coolers 1 | | |
| Sample Condition (Laboratory Use Only) | | Temp in °C | Received on Ice | Scaled Cooler | Sample Intact | Additional Comments | | | | | | | | |

*Use start and stop time/date for composite and air samples. Include single start time and date for all other samples.
 Matrix: GW = Groundwater S = Soil SE = Sediment SW = Surface Water WW = Wastewater A = Air W = Wipe B = Bulk BI = Biota O = Other (detail in comments)
 Preservation: I = Ice H = HCl N = HNO₃ S = H₂SO₄ NO = NaOH O = Other (detail in comments)

REC: *Felix* Relinquish *Felix* 2/11/15 9:30 FedEx # 8066 2671 9107 Sec # N/A 3.0C ²⁵

71110

4.1
4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB88131 **Client:** _____ **Project:** _____
Date / Time Received: 2/12/2015 9:50:00 AM **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (3/2.7); 0

| | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|--|
| Cooler Security | | <u>Y</u> or <u>N</u> | | <u>Y</u> or <u>N</u> |
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> <input type="checkbox"/> |

| | | |
|------------------------------|-------------------------------------|--------------------------|
| Cooler Temperature | | <u>Y</u> or <u>N</u> |
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun _____ | |
| 3. Cooler media: | Ice (Bag) _____ | |
| 4. No. Coolers: | 1 _____ | |

| | | |
|-------------------------------------|--|--------------------------|
| Quality Control Preservation | <u>Y</u> or <u>N</u> | <u>N/A</u> |
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |

| | | |
|---|-------------------------------------|--------------------------|
| Sample Integrity - Documentation | | <u>Y</u> or <u>N</u> |
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| | | |
|-------------------------------------|-------------------------------------|--------------------------|
| Sample Integrity - Condition | | <u>Y</u> or <u>N</u> |
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact _____ | |

| | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Sample Integrity - Instructions | | <u>Y</u> or <u>N</u> | <u>N/A</u> |
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

4.1
4

Technical Report for

WSP

090149-04, Kop-Flex, Hanover, MD

39196

Accutest Job Number: JB90471

Sampling Date: 03/19/15

Report to:

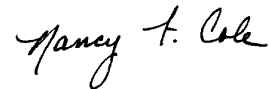
WSP
11190 Sunrise Valley Drive Suite 300
Reston, VA 20190
eric.johnson@wspgroup.com

ATTN: Eric Johnson

Total number of pages in report: **19**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Mayur Patel 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

WSP

Job No: JB90471

090149-04, Kop-Flex, Hanover, MD
 Project No: 39196

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|-------------|----------|--------|------------------|-------------------|
| | Date | Time By | | Code | Type | |
| JB90471-1 | 03/19/15 | 10:20 RW/MR | 03/20/15 | AQ | Ground Water | RW-7932AND-031915 |
| JB90471-2 | 03/19/15 | 11:30 RW/MR | 03/20/15 | AQ | Ground Water | RW-7740TO-031915 |
| JB90471-3 | 03/19/15 | 18:25 RW/MR | 03/20/15 | AQ | Ground Water | RW-7550DA-031915 |
| JB90471-4 | 03/19/15 | 18:25 RW/MR | 03/20/15 | AQ | Trip Blank Water | TRIP BLANK |

Summary of Hits

Job Number: JB90471
Account: WSP
Project: 090149-04, Kop-Flex, Hanover, MD
Collected: 03/19/15

| Lab Sample ID | Client Sample ID | Result/ Analyte | RL | MDL | Units | Method | |
|------------------|--------------------------|-------------------------|--------|------|-------|--------|-------------------|
| JB90471-1 | RW-7932AND-031915 | | | | | | |
| | | 1,1-Dichloroethane | 0.13 J | 0.50 | 0.039 | ug/l | EPA 524.2 REV 4.1 |
| | | 1,1-Dichloroethylene | 4.1 | 0.50 | 0.054 | ug/l | EPA 524.2 REV 4.1 |
| | | 1,1,1-Trichloroethane | 0.43 J | 0.50 | 0.050 | ug/l | EPA 524.2 REV 4.1 |
| JB90471-2 | RW-7740TO-031915 | | | | | | |
| | | 1,1-Dichloroethylene | 1.8 | 0.50 | 0.054 | ug/l | EPA 524.2 REV 4.1 |
| | | 1,1,1-Trichloroethane | 0.28 J | 0.50 | 0.050 | ug/l | EPA 524.2 REV 4.1 |
| JB90471-3 | RW-7550DA-031915 | | | | | | |
| | | Chloroform | 0.14 J | 0.50 | 0.031 | ug/l | EPA 524.2 REV 4.1 |
| | | Methyl Tert Butyl Ether | 0.96 | 0.50 | 0.030 | ug/l | EPA 524.2 REV 4.1 |
| JB90471-4 | TRIP BLANK | | | | | | |
| | | Acetone | 1.2 J | 5.0 | 0.91 | ug/l | EPA 524.2 REV 4.1 |
| | | Methylene chloride | 0.36 J | 0.50 | 0.047 | ug/l | EPA 524.2 REV 4.1 |

Sample Results

Report of Analysis

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7932AND-031915 | |
| Lab Sample ID: JB90471-1 | Date Sampled: 03/19/15 |
| Matrix: AQ - Ground Water | Date Received: 03/20/15 |
| Method: EPA 524.2 REV 4.1 | Percent Solids: n/a |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #2 | 1B96175.D | 1 | 03/23/15 | MD | n/a | n/a | V1B4551 |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #2 | 5.0 ml |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.91 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.57 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.057 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.035 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.088 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.082 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.046 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.077 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.030 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.074 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.045 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.028 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.027 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.037 | ug/l | |
| 67-66-3 | Chloroform | ND | 0.50 | 0.031 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.044 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.045 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.073 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.074 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | 0.13 | 0.50 | 0.039 | ug/l | J |
| 75-35-4 | 1,1-Dichloroethylene | 4.1 | 0.50 | 0.054 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.053 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.078 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.031 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.034 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.082 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.041 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.067 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.042 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.046 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.054 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.046 | ug/l | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | RW-7932AND-031915 | Date Sampled: | 03/19/15 |
| Lab Sample ID: | JB90471-1 | Date Received: | 03/20/15 |
| Matrix: | AQ - Ground Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.052 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.034 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.039 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.081 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.033 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.063 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.033 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.073 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.094 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.084 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.054 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.062 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.047 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.50 | 0.030 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.27 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.084 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.061 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.028 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.028 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.43 | 0.50 | 0.050 | ug/l | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.035 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.052 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.024 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.047 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.035 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.031 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.041 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.091 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.044 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.024 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.057 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.032 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.13 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.029 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.029 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 95% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | | 77-115% |

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

| | |
|--|--------------------------------|
| Client Sample ID: RW-7932AND-031915 | Date Sampled: 03/19/15 |
| Lab Sample ID: JB90471-1 | Date Received: 03/20/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C118726.D | 1 | 03/24/15 | PS | n/a | n/a | V3C5399 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 90% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7740TO-031915 | Date Sampled: 03/19/15 |
| Lab Sample ID: JB90471-2 | Date Received: 03/20/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #2 | 1B96176.D | 1 | 03/23/15 | MD | n/a | n/a | V1B4551 |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #2 | 5.0 ml |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.91 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.57 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.057 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.035 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.088 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.082 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.046 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.077 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.030 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.074 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.045 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.028 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.027 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.037 | ug/l | |
| 67-66-3 | Chloroform | ND | 0.50 | 0.031 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.044 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.045 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.073 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.074 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.039 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | 1.8 | 0.50 | 0.054 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.053 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.078 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.031 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.034 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.082 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.041 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.067 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.042 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.046 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.054 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.046 | ug/l | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

| | | |
|--|--|--------------------------------|
| Client Sample ID: RW-7740TO-031915 | | Date Sampled: 03/19/15 |
| Lab Sample ID: JB90471-2 | | Date Received: 03/20/15 |
| Matrix: AQ - Ground Water | | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | | |
| Project: 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.052 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.034 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.039 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.081 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.033 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.063 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.033 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.073 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.094 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.084 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.054 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.062 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.047 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.50 | 0.030 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.27 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.084 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.061 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.028 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.028 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.28 | 0.50 | 0.050 | ug/l | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.035 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.052 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.024 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.047 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.035 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.031 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.041 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.091 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.044 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.024 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.057 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.032 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.13 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.029 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.029 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 95% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | | 77-115% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

| | |
|--|--------------------------------|
| Client Sample ID: RW-7740TO-031915 | Date Sampled: 03/19/15 |
| Lab Sample ID: JB90471-2 | Date Received: 03/20/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C118727.D | 1 | 03/24/15 | PS | n/a | n/a | V3C5399 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 87% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 92% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7550DA-031915 | Date Sampled: 03/19/15 |
| Lab Sample ID: JB90471-3 | Date Received: 03/20/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B96177.D | 1 | 03/23/15 | MD | n/a | n/a | V1B4551 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | ND | 5.0 | 0.91 | ug/l | |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.57 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.057 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.035 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.088 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.082 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.046 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.077 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.030 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.074 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.045 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.028 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.027 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.037 | ug/l | |
| 67-66-3 | Chloroform | 0.14 | 0.50 | 0.031 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.044 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.045 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.073 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.074 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.039 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.054 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.053 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.078 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.031 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.034 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.082 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.041 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.067 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.042 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.046 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.054 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.046 | ug/l | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7550DA-031915 | Date Sampled: 03/19/15 |
| Lab Sample ID: JB90471-3 | Date Received: 03/20/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.052 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.034 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.039 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.081 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.033 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.063 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.033 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.073 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.094 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.084 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.054 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.062 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 0.50 | 0.047 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.96 | 0.50 | 0.030 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.27 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.084 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.061 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.028 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.028 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.050 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.035 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.052 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.024 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.047 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.035 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.031 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.041 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.091 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.044 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.024 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.057 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.032 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.13 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.029 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.029 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 95% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | |
|--|--------------------------------|
| Client Sample ID: RW-7550DA-031915 | Date Sampled: 03/19/15 |
| Lab Sample ID: JB90471-3 | Date Received: 03/20/15 |
| Matrix: AQ - Ground Water | Percent Solids: n/a |
| Method: SW846 8260B BY SIM | |
| Project: 090149-04, Kop-Flex, Hanover, MD | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|------------|----|----------|----|-----------|------------|------------------|
| Run #1 | 3C118728.D | 1 | 03/24/15 | PS | n/a | n/a | V3C5399 |
| Run #2 | | | | | | | |

| Run # | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|----------------------|--------|--------|---------|-------|---|
| 123-91-1 | 1,4-Dioxane | ND | 2.0 | 1.0 | ug/l | |
| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits | | |
| 2037-26-5 | Toluene-D8 | 82% | | 36-149% | | |
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 34-135% | | |

| | | |
|---|------------------------------|--|
| ND = Not detected | MDL = Method Detection Limit | J = Indicates an estimated value |
| RL = Reporting Limit | | B = Indicates analyte found in associated method blank |
| E = Indicates value exceeds calibration range | | N = Indicates presumptive evidence of a compound |

Report of Analysis

| | | |
|--|--|--------------------------------|
| Client Sample ID: TRIP BLANK | | Date Sampled: 03/19/15 |
| Lab Sample ID: JB90471-4 | | Date Received: 03/20/15 |
| Matrix: AQ - Trip Blank Water | | Percent Solids: n/a |
| Method: EPA 524.2 REV 4.1 | | |
| Project: 090149-04, Kop-Flex, Hanover, MD | | |

| Run #1 | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 1B96178.D | 1 | 03/23/15 | MD | n/a | n/a | V1B4551 |
| Run #2 | | | | | | | |

| Run #1 | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml |
| Run #2 | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|----------|-----------------------------|--------|------|-------|-------|---|
| 67-64-1 | Acetone | 1.2 | 5.0 | 0.91 | ug/l | J |
| 78-93-3 | 2-Butanone | ND | 5.0 | 0.57 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.057 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 0.50 | 0.035 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 0.50 | 0.088 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 0.50 | 0.082 | ug/l | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.046 | ug/l | |
| 74-83-9 | Bromomethane | ND | 0.50 | 0.077 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 0.50 | 0.030 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.074 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 0.50 | 0.045 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 0.50 | 0.028 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 0.50 | 0.027 | ug/l | |
| 75-00-3 | Chloroethane | ND | 0.50 | 0.037 | ug/l | |
| 67-66-3 | Chloroform | ND | 0.50 | 0.031 | ug/l | |
| 74-87-3 | Chloromethane | ND | 0.50 | 0.044 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 0.50 | 0.045 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 0.50 | 0.073 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 0.50 | 0.074 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.50 | 0.039 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.50 | 0.054 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 0.50 | 0.053 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | 0.078 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.50 | 0.031 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.50 | 0.034 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.50 | 0.082 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 0.50 | 0.041 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 0.50 | 0.067 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 0.50 | 0.042 | ug/l | |
| 74-95-3 | Dibromomethane | ND | 0.50 | 0.046 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.50 | 0.054 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 0.50 | 0.046 | ug/l | |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | | |
|--------------------------|----------------------------------|------------------------|----------|
| Client Sample ID: | TRIP BLANK | Date Sampled: | 03/19/15 |
| Lab Sample ID: | JB90471-4 | Date Received: | 03/20/15 |
| Matrix: | AQ - Trip Blank Water | Percent Solids: | n/a |
| Method: | EPA 524.2 REV 4.1 | | |
| Project: | 090149-04, Kop-Flex, Hanover, MD | | |

VOA List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|----------------------------|--------|------|-------|-------|---|
| 95-50-1 | o-Dichlorobenzene | ND | 0.50 | 0.052 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 0.50 | 0.034 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.50 | 0.039 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.50 | 0.081 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.033 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.063 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.033 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.50 | 0.073 | ug/l | |
| 110-54-3 | Hexane | ND | 0.50 | 0.094 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 2.0 | 0.084 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 0.50 | 0.054 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 0.50 | 0.062 | ug/l | |
| 75-09-2 | Methylene chloride | 0.36 | 0.50 | 0.047 | ug/l | J |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.50 | 0.030 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2.0 | 0.27 | ug/l | |
| 91-20-3 | Naphthalene | ND | 0.50 | 0.084 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.061 | ug/l | |
| 100-42-5 | Styrene | ND | 0.50 | 0.028 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 0.50 | 0.028 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.50 | 0.050 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.035 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.50 | 0.052 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 0.50 | 0.024 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 0.50 | 0.047 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.50 | 0.035 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.031 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.041 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 0.50 | 0.091 | ug/l | |
| 108-88-3 | Toluene | ND | 0.50 | 0.044 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 0.50 | 0.024 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 1.0 | 0.057 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 0.50 | 0.032 | ug/l | |
| | m,p-Xylene | ND | 0.50 | 0.13 | ug/l | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.029 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 0.50 | 0.029 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|------------------------|--------|--------|---------|
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 94% | | 78-114% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 77-115% |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

| WSP | | WSP CHAIN-OF-CUSTODY RECORD | | | | Requested Analysis | | | | Page 1 of 1 | | |
|---|-----------|---|-----------------|---|---------------|---------------------------------|-------------------|-----------------------------|---|---|--|--------------------------------------|
| Project Name & Location Kop-Flex, Hanover, MD | | WSP Office Address 11190 Sunrise Valley Dr. Reston, VA 20191 | | | | Requested Analysis | | | | No 000169 | | |
| Project No. 39196 | | WSP Contact Name Eric Johnson | | | | Requested TAT STD | | | | Requested Deliverable | | |
| Sampler's Name Rob Wallace Matt Richardson | | WSP Contact E-mail Eric.Johnson@wspgroup.com | | | | Requested Deliverable | | | | <input type="checkbox"/> LEVEL II <input type="checkbox"/> ERIMS EDD <input checked="" type="checkbox"/> LEVEL III <input type="checkbox"/> GISKEY EDD <input type="checkbox"/> LEVEL IV <input type="checkbox"/> EQUIS EDD | | |
| Sampler's Signature <i>[Signature]</i> | | WSP Contact Phone (703) 709-6500 | | | | Preservative | | | | Sample Comments | | |
| Sample ID | Comp/Grab | Collection Date | | Collection Time | | Matrix | No. of Containers | Preservative | | | | Sample Comments |
| | | Start | Stop | Start | Stop | | | | | | | |
| -1 RW-7932AND-031915 | G | 3/19/15 | | 1020 | | Ag | 6 | X | X | | | |
| -2 RW-7740TO-031915 | G | 3/19/15 | | 1130 | | Ag | 6 | X | X | | | |
| -3 RW-755ODA-031915 | G | 3/19/15 | | 1825 | | Ag | 6 | X | X | | | |
| -4 Trip Blank | G | 3/19/15 | | 1900 | | Ag | 2 | X | | | | |
| | | | | | | | | | | INITIAL ASSESSMENT <i>JB/ae</i> | | |
| | | | | | | | | | | LABEL VERIFICATION <i>[Signature]</i> | | |
| Relinquished By (Signature) <i>[Signature]</i> | | Date | Time | Received By (Signature) <i>[Signature]</i> | | Date | Time | Laboratory Name Accutest | | Laboratory Location Dayton, OH | | Laboratory Contact Tammy McClosky |
| Relinquished By (Signature) <i>[Signature]</i> | | Date | Time | Received By (Signature) <i>[Signature]</i> | | Date | Time | Method of Shipment Fedex | | Airbill No. 6250 6356636 | | Shipping Date 3/19/15 |
| Sample Condition (Laboratory Use Only) | | Temp in °C | Received on Ice | Sealed Cooler | Sample Intact | Additional Comments | | | | | | |
| | | 2.2°C | YES | YES | YES | 424 # 6250 6350 6636, NO Seal # | | | | | | |

VOCs (S24.4)
14-Dioxin (S24.4)

V415

4.1
4

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB90471 Client: _____ Project: _____

Date / Time Received: 3/20/2015 9:40:00 AM Delivery Method: _____ Airbill #'s: _____

Cooler Temps (Initial/Adjusted): #1: (2.2/0.4); 0

| <u>Cooler Security</u> | <u>Y or N</u> | <u>Y or N</u> |
|---------------------------|--|--|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> <input type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> <input type="checkbox"/> | 4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y or N</u> |
|------------------------------|--|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| 2. Cooler temp verification: | <u>IR Gun</u> |
| 3. Cooler media: | <u>Ice (Bag)</u> |
| 4. No. Coolers: | <u>1</u> |

| <u>Quality Control Preservation</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2. Trip Blank listed on COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

| <u>Sample Integrity - Documentation</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|---|-------------------------------------|--------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| <u>Sample Integrity - Condition</u> | <u>Y</u> | <u>or</u> | <u>N</u> |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | <u>Intact</u> | | |

| <u>Sample Integrity - Instructions</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments