# INTERIM DATA REPORT FOR ADDITIONAL GROUNDWATER, SURFACE WATER AND SOIL SAMPLING, CLEAN HARBORS KANSAS, LLC, WICHITA, KANSAS EPA I.D. NUMBER KSD 007 246 846

**PREPARED FOR:**

**CLEAN HARBORS KANSAS, LLC**
**2549 NEW YORK STREET**
**WICHITA, KANSAS**

**PREPARED BY:**

CAMERON-COLE

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APRIL 12, 2005

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RCRA RECORDS

CAMERON-COLE

April 12, 2005

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Ms. Lisa A. Gotto
U.S. Environmental Protection Agency
Region VII
901 North 5th Street
Kansas City, Kansas 66101

**RE: Interim Data Report for Additional Groundwater, Surface Water and Soil Sampling**
**Clean Harbors Kansas, LLC**
**2549 New York Street, Wichita, Kansas**
**EPA Identification No: KSD007246846**

Dear Ms. Gotto:

Cameron-Cole, LLC (Cameron-Cole) has prepared this report on behalf of Clean Harbors Kansas (Clean Harbors) to present the results of additional groundwater, surface water and soil sampling and analysis at the Clean Harbors Kansas property (Site) since the submittal of the revised RCRA Facility Investigation (RFI) Report on January 20, 2005. The scope of work for the sampling was originally identified in our November 23, 2004 letter and revised in a January 21, 2005 letter based on your December 23, 2004 comments. The scope of work includes limited additional soil sampling, quarterly surface water sampling, the installation of two additional monitoring wells, and quarterly groundwater sampling at existing wells and the two new wells. This letter presents the data obtained to date, which includes the results of all proposed soil sampling, one additional surface water sampling event, and one additional groundwater sampling event at all existing wells and the two new monitoring wells.

All of the well installation and sampling work was performed between January 31 and February 3, 2005 with the exception of the installation of Well SK-13S. The installation of Well SK-13S was delayed due to wet conditions that limited access to the drilling site. Well SK-13S was installed March 11 and sampled March 14, 2005.

The well installation and sampling work was performed in accordance with the procedures described in the January 21, 2005 letter and standard operating procedures provided in the USEPA-approved Phase I RCRA Facility Investigation (RFI) Work Plan dated October 1999.

**Delineation and Verification Soil Sampling**

A total of 17 soil samples were collected at 9 soil borings (Figure 1) that were drilled using a Geoprobe® rig. The purpose of the soil sampling was to further delineate shallow soil impacts (volatile organic compounds – [VOCs]) west of Soil Boring B-86, located in the western portion of the Site, and to verify soil analytical results for VOCs in the vicinity of Building J, northeast of Building K outside the fenceline, and just west of the Former Solids Gondola Area using USEPA Method 5035/8260B. Geologic logs (Attachment 1) were prepared for each boring based on visual examination of continuous soil cores obtained with the Geoprobe® equipment.

Two soil samples were collected for laboratory analysis from verification borings B-70V, B-86V, B-96V, B100V, B-103V and B-106V at a depth of approximately three to four feet and within three feet of saturated conditions, which was at a depth of 12 to 15 feet below the surface. Due to perched groundwater conditions at verification boring B-31V, only one soil sample was collected. In general, the verification samples were collected within one foot of the original sample depth. Three soil samples were collected from the two delineation soil borings (B-110 and B-111) at approximately 0.5-feet, three to four feet and within three feet of saturated conditions. Soils samples for laboratory analysis were obtained from the Geoprobe® soil cores using an Encore® sampler and sample containers to minimize the loss of potential contaminants due to volatilization and biodegradation. The Encore® samples were packed in dry ice and shipped via overnight delivery to Severn Trent Laboratory (STL) in Denver, Colorado. The samples were frozen, in lieu of preservation with sodium bisulfate and/or methanol, to extend the holding time to 14 days from the time of sample collection.

Data validation was performed to assess the quality of all sample results. The data validation summaries will be included in the August 2005 RFI Addendum Report. Analytical results are summarized in Table 1 and shown on Figures 2, 3, and 4. The laboratory report for the soils data is provided as Attachment 2.

The analytical results for samples collected from borings B-110 and B-111 that were drilled west of soil boring B-86 (Figure 2), indicate that the hotspot at B-86 does not extend appreciably west. The samples from B-110 and B-111 showed low concentrations tetrachloroethene (PCE), cis-1,2-dichloroethene (cis-1,2-DCE) and/or trichloroethene (TCE). None of the concentrations exceeded USEPA Region 9 direct contact or impact to groundwater Soil Screening Levels (SSLs) or Kansas Department of Health and Environment (KDHE) soil screening criteria.

The remaining soil samples (B-31V, B-70V, B-86V, B-96V, B100V, B-103V and B-106V) were collected primarily for the purpose of comparing the results from the Encore® sampling and preservation methodology for these samples to the results obtained previously at these boring locations where soil samples were packed in glass jars. While some of the verification samples

showed lower concentrations than the original samples obtained using conventional methodology, on balance, the results of the verification samples are similar to or somewhat higher in concentration than the original samples (Table 1, Figures 2, 3, and 4). One exception is sample B-31V-6', which had similar constituents but concentrations notably higher than in the original sample collected in 1999.

The somewhat higher concentrations at three of the borings (B-96V, B-103V, and B-106V) compared to the original sample results and the notably higher concentrations at B-31V result in exceedances of the USEPA Region 9 SSLs or KDHE soil screening criteria that were not observed in the original sample results (Table 1).

**Surface Water Sampling**

Surface water samples were collected at five monitoring points (SK-SW-1 through SK-SW-5) on February 3, 2005. The sampling locations are the same as those sampled previously during the RFI. Analytical results are summarized on Figure 5 and provided in the laboratory report in Attachment 3. The results are similar to those reported previously. As in all previous surface water sampling events, no VOCs were detected that exceed promulgated Maximum Contaminant Levels (MCLs) for drinking water. Trace concentrations (<5 μg/L) of a few constituents were noted both upgradient and downgradient of the Site (Figure 5).

**Monitoring Well Installation and Groundwater Sampling**

Three additional monitoring wells were installed and sampled at the facility to further assess downgradient impacts associated with the facility. One shallow and one deep well (SK-12S/12D) were installed along the southern property boundary to provide further groundwater characterization dowgradient of the soil hotspot at SWMU #7 and SWMU #24 near boring B-46 and B-86. A shallow well (SK-13S) was installed southeast and downgradient of the facility, as close to the original location of MW-380 as allowable by the Kansas Department of Transportation (KDOT), to characterize groundwater quality conditions on the east side of the East Fork of Chisholm Creek. The well locations are shown on Figure 1 and Plate 1.

The monitoring wells were installed using the hollow-stem auger drilling method. The shallow wells were installed to a depth of approximately 23 to 25 feet below land surface with 10 feet of 2-inch diameter, Schedule 40 polyvinyl chloride (PVC), 0.010-inch slot well screen attached to an appropriate amount of PVC riser. The deep well was installed to approximately 40 feet below land surface with 5-feet of 2-inch diameter, Schedule 40 PVC, 0.010-inch slot well screen attached to an appropriate amount of PVC riser. Well logs are provided in Attachment 1.

The new wells were developed, purged and sampled in accordance with the USEPA-approved Phase I RCRA Faciltiy Investigation (RFI) Work Plan dated October 1999. A complete round of water-level measurements and sampling at all facility monitoring wells was performed on February

1 and 2, 2005, with the exception of Well SK-13S. This well was not installed or sampled until mid-March 2005 because of a delay in accessing the drilling area due to wet ground conditions. Another complete round of water-level measurements was obtained when Well SK-13S was sampled on March 14, 2005.

Figures 6 and 7 provide potentiometric maps for the shallow aquifer zone at the Site based on the water level measurements in February and March (Table 2). The pattern and direction of groundwater flow are similar to that observed in the past.

The elevation of the water in the East Fork of Chisholm Creek was measured in February in connection with the water-level measurements at monitoring wells and is posted on Figure 6. Creek elevations were not obtained in March 2005. However, the flow rate and level of water in the creek in March 2005 appeared similar to that observed in February 2005. Groundwater flow in the vicinity of Well SK-13S installed on the east side of the creek appears to be directed to the west, toward the creek. The groundwater elevations and creek elevations shown on Figures 6 and 7 indicate that the segment of the creek near the facility is a gaining stream at these elevations. In other words, groundwater is discharging to the creek. Under these conditions, it is reasonable to conclude that the creek is a barrier to shallow groundwater flow that would preclude appreciable migration of groundwater from one side to the other. However, some commingling and dispersion of constituents entering the alluvial channel of the creek can be expected.

Data validation was performed to assess the quality of all sample results. The data validation summaries will be included in the August 2005 RFI Addendum Report. Groundwater quality data is summarized in Table 3 and on Plate 1. The complete laboratory reports are provided in Attachment 3. PCE and TCE were detected in new monitoring well SK-12S at concentrations of 350 micrograms per liter (µg/L) and 23 µg/L, respectively. The occurrence of these constituents in the shallow aquifer is consistent with previous Geoprobe groundwater samples collected during the RFI in this area and with the occurrence of the same constituents in the soil hotspot at borings B-46 and B-86. In the lower aquifer at this location (new well SK-12D), PCE was detected at a trace concentration of (2.8 µg/L), whereas TCE was observed at a higher concentration (77 µg/L) together with the occurrence of cis-1,2-DCE (15 µg/L). The predominance of TCE, and occurrence of cis-1,2-DCE in SK-12D is consistent with the detection of these constituents upgradient of the Clean Harbors Site (see wells SK-7D, SK-8D, SK-9D and WNC-32D on Plate 1) and their occurrence in a regional groundwater plume under investigation by the City of Wichita in the North Industrial Corridor (NIC).

The analytical results for the groundwater sample from monitoring Well SK-13S, located east of the creek, indicated the presence of low to trace concentrations of three VOCs. The constituent 1,1-dichloroethane (DCA) was detected at 6.7 µg/L, PCE at 1.2 µg/L, and 1,1,1-trichlorethane (TCA) at 1.3 µg/L. Each of these constituents has been detected in groundwater at the Site, although DCA, and TCA in particular, occur infrequently compared to PCE, TCE, and cis-1,2-DCE. It is not possible to determine conclusively whether DCA and TCA in SK-13S originate from the Site or a

source further to the northeast. The occurrence of these constituents at SK-13S may reflect the migration of constituents from the Site toward the creek and dispersion within the alluvial channel of the creek as discussed above. However, the prevalence of PCE, TCE, and cis-1,2-DCE in groundwater west of the creek at the Site, the relative absence of these constituents on the east side of the creek, and the hydraulic gradient leave open the possibility that these constituents may originate from a source further to the east. None of the constituents detected in Well SK-13S exceed MCLs.

The analytical results for all other groundwater samples collected in the February 2005 Site-wide monitoring event are similar to previous results reported in the January 20, 2005 RCRA Facility Investigation Report. The most recent sample results are summarized, together with previous results, on Plate 1.

**Upcoming Field Activities**

In accordance with the January 21, 2005 scope of work, two additional groundwater and surface water sampling events will be performed. These will include all monitoring wells at the Site, including the 11 upgradient monitoring wells on UPRR property and the newly installed offsite well SK-13S located on the east side of the East Fork of Chisholm Creek. The sampling events are planned for mid-April and mid-summer 2005. Results will be presented following the mid-summer 2005 sampling event.

Please call John Arbuthnot at 225-778-3596 if you have questions regarding this information.

Sincerely,

**Cameron-Cole, L.L.C.**

Janette D. Wilson
Project Manager

Wayne Frank for
Brian C. Martinek
Senior Manager

Enclosures:
Figures 1 through 7 and Plate 1
Table 1, 2 and 3
Attachments 1, 2 and 3

cc: John Cook – KDHE
John Arbuthnot – Clean Harbors
Jeff McDermott - UPRR

**Table 1**
**Soil Sample Analytical Results for Volatile Organic Compounds in µg/kg**
**Clean Harbors Kansas, LLC**

NOT IN PRG TABLE

| Boring ID | Date | Sample Type | 1,1,1-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,4-Trimethylbenzene | 1,2-Dichlorobenzene | 1,3,5-Trimethylbenzene | cis-1,2-Dichloroethene | Ethylbenzene | Isopropylbenzene | m-Xylene & p-Xylene | n-Butylbenzene | n-Propylbenzene | Naphthalene | o-Xylene | p-Isopropyltoluene | sec-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2,100,000 | 2,100,000 | 1400 | | | 69,400 | | | | | | | | | | | | | | | |
| **KDHE Non-residential Soil Pathway** | | | 180,000 | 210,000 | 210,000 | 9,700 | 990,000 | 420,000 | 180,000 | 650,000 | NA | 700,000 | 395,000 | 400,000 | 320,000 | 700,000 | NA | 380,000 | 140,000 | 1,000,000 | 290,000 | 98,000 | 540 |
| **KDHE Soil to Groundwater** | | | 5,500 | 13,000 | 13,000 | 2,900 | 77,000 | 930 | 800 | 55,000 | NA | 700,000 | 12,000 | 44,000 | 140,000 | 700,000 | NA | 9,000 | 180 | 40,000 | 1,500 | 200 | 20 |
| | | | | | | | | 830 | | | | | | | | | | | | | | | |
| **USEPA Reg. 9 Industrial Soil PRGs** | | | 1,200,000 | 600 | 410,000 | 170,000 | 370,000 | 70,000 | 150,000 | 20,000 | NA | 420,000 | 240,000 | 240,000 | 190,000 | 420,000 | NA | 220,000 | 3,400 | 520,000 | 230,000 | 110 | 750 |
| | | | 1700,000 | | | | 600,000 | | | 400,000 | | | | | | | | | 13,000 | | | | |
| **USEPA Reg. 9 DAF 20 SSLs** | | | 2,000 | 20 | 60 | NA | 17,000 | NA | 400 | 13,000 | NA | 210,000 | NA | NA | 84,000 | 210,000 | NA | NA | 60 | 12,000 | 700 | 60 | NA |
| | | | | 23,000 | | | | | | | | | | | | | | | | | | | |
| B-31 (5) | 11/30/1999 | | < 5 | < 5 | < 5 | **93** | **21** | **35** | < 2.5 | **8.5** | < 5 | **50** | **25** | **7** | **37** | **24** | **7.6** | **5** | **110** | < 5 | < 2.5 | < 5 | < 10 |
| B-31V (6) | 1/31/2005 | Verification | < 5 | **11 J** | **8.6 J** | **3400 J** | **420 J** | **1400 J** | **1300 J** | **2700 J** | **310 J** | **1200 J** | **790 J** | **670 J** | **190 J** | **440 J** | **110 J** | **150 J** | < 5 | **260 J** | **6.6 J** | < 5 | < 250 UJ |
| B-70 (8) | 11/7/2001 | | < 25 | < 25 | < 25 | < 25 | < 25 | < 25 | < 12 | < 25 | < 25 | < 12 | < 25 | < 25 | < 25 | < 12 | < 25 | < 25 | **580** | < 25 | < 12 | **25** | < 25 |
| B-70V (8) | 1/31/2005 | Verification | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | **28** | < 5 | < 2 | < 5 | < 5 |
| B-70 (18) | 11/7/2001 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 |
| B-70V (16) | 1/31/2005 | Verification | **6.9** | **6.5** | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | **11** | < 5 | < 2 | < 5 | < 5 |
| B-86 (3.5) | 8/20/2002 | | < 240 | < 240 | < 240 | < 240 | < 240 | < 240 | < 120 | < 240 | < 240 | < 120 | < 240 | < 240 | < 240 | < 120 | < 240 | < 240 | **19000** | < 240 | < 120 | **1400** | < 240 |
| B-86V (3.5) | 1/31/2005 | Verification | < 5 | < 5 | < 5 | **16** | < 5 | < 5 | **14** | < 5 | < 5 | < 2 | < 5 | < 5 | 22 | < 2 | < 5 | < 5 | **45000 J** | < 5 | **4.7** | **3800 J** | < 5 |
| B-86 (11) | 8/20/2002 | | < 250 | < 250 | < 250 | < 250 | < 250 | < 250 | < 120 | < 250 | < 250 | < 120 | < 250 | < 250 | < 250 | < 120 | < 250 | < 250 | **1800** | < 250 | < 120 | < 250 | < 250 |
| B-86V (12) | 1/31/2005 | Verification | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | **1200 J** | < 5 | < 2 | **14** | < 5 |
| B-96 (4) | 8/21/2002 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | **39** | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | **44** | < 5 | < 2.5 | **29** | < 5 |
| B-96V (4) | 1/31/2005 | Verification | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | **220 J** | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 5 | **4.7** | **150** | **24** |
| B-96 (12) | 8/21/2002 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | **7.7** | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | **20** | < 5 | < 2.5 | < 5 | < 5 |
| B-96V (14) | 1/31/2005 | Verification | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 120 UJ | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | **280 J** | < 5 | **6.4** | **45** | **19** |
| B-100 (4) | 8/20/2002 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | **7.5** | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | **18** | < 5 | < 2.5 | **5** | < 5 |
| B-100V (4) | 1/31/2005 | Verification | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | **76** | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 5 | < 2 | **12** | < 5 |
| B-100V (14) | 1/31/2005 | Verification | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 |
| B-100 (14.5) | 8/20/2002 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | **8.4** | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | **170** | < 5 | < 2.5 | **8.7** | < 5 |
| B-103 (8) | 8/21/2002 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | **47** | < 5 | < 2.5 | < 5 | < 5 |
| B-103V (8) | 1/31/2005 | Verification | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | **91** | < 5 | < 2 | < 5 | < 5 |
| B-103 (15) | 8/21/2002 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | **2.9** | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | **32** | < 5 | < 2.5 | < 5 | < 5 |
| B-103V (16) | 1/31/2005 | Verification | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | **17** | < 5 | < 2 | < 5 | < 5 |
| B-106 (4) | 8/22/2002 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | **89** | < 5 | < 2.5 | < 5 | < 5 |
| B-106V (4) | 1/31/2005 | Verification | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | **120** | < 5 | < 2 | < 5 | < 5 |
| B-106 (11) | 8/22/2002 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | < 5 | < 2.5 | < 5 | < 5 | **84** | < 5 | < 2.5 | < 5 | < 5 |
| B-106V (13) | 1/31/2005 | Verification | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | **60** | < 5 | < 2 | < 5 | < 5 |
| B-110 (0.5) | 1/31/2005 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 |
| B-110 (3) | 1/31/2005 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | 32 | < 5 | < 2 | < 5 | < 5 |
| B-110 (13) | 1/31/2005 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | **4.8** | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | **33** | < 5 | < 2 | < 5 | < 5 |
| B-111 (0.5) | 1/31/2005 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | **33 J** | < 5 | < 2 | **10 J** | < 5 |
| B-111 (3) | 1/31/2005 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | **14** | < 5 | < 2 | **< 5** | < 5 |
| B-111 (15) | 1/31/2005 | | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | < 2 | < 5 | < 5 | < 5 | < 2 | < 5 | < 5 | **9.2** | < 5 | < 2 | < 5 | < 5 |

µg/kg = micrograms per kilogram
Values in parentheses in Boring ID indicate the depth of the sample
Detections are shown in **Bold.**
Values that exceed KDHE or USEPA screening levels listed at the top of the page are shaded
J = Validation Qualifier indicating that the result reported is an estimated value
U = Validation Qualifier indicating that the result reported is below detection limits due to detected concentrations above the reporting limit in the associated blank

**Table 2**
**Monitoring Well Construction Summary and Fluid Levels**
**Clean Harbors Kansas, LLC**

| Well ID | Completion Zone | Date Installed | Survey Coordinates | | TOC Elevation | Protective Casing Elevation (ft-msl) | Casing Diameter (inches) | Screened Interval (ft below TOC) | Oct-04 | | Feb.-05 | | Mar-05 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Northing | Easting | | | | | DTW (ft) | GW Elevation (ft-msl) | DTW (ft) | GW Elevation (ft-msl) | DTW (ft) | GW Elevation (ft-msl) |
| SK-1D | lower | 10/23/2000 | 1701433.03 | 1654158.09 | 1315.61 | 1315.87 | 2.00 | 33.5-38.5 | 16.10 | 1299.51 | 16.20 | 1299.41 | 16.27 | 1299.34 |
| SK-1S | upper | 10/23/2000 | 1701435.13 | 1654150.42 | 1315.43 | 1315.66 | 2.00 | 11.5-26.58 | 16.82 | 1298.61 | 16.82 | 1298.61 | 16.92 | 1298.51 |
| SK-2D | lower | 10/23/2000 | 1701352.84 | 1653651.39 | 1313.47 | 1313.75 | 2.00 | 32.75-37.75 | 14.04 | 1299.43 | 14.17 | 1299.30 | 14.23 | 1299.24 |
| SK-2S | upper | 10/24/2000 | 1701352.32 | 1653643.20 | 1313.51 | 1313.81 | 2.00 | 10.75-25.75 | 14.31 | 1299.20 | 14.48 | 1299.03 | 14.50 | 1299.01 |
| SK-3D | lower | 10/24/2000 | 1701358.20 | 1653459.78 | 1313.37 | 1313.67 | 2.00 | 32.7-39.7 | 13.67 | 1299.70 | 13.81 | 1299.56 | 13.87 | 1299.50 |
| SK-3S | upper | 10/23/2000 | 1701358.64 | 1653453.58 | 1313.33 | 1313.67 | 2.00 | 9.5-24.5 | 13.69 | 1299.64 | 13.90 | 1299.43 | 13.87 | 1299.46 |
| SK-4D | lower | 11/9/2001 | 1701322.33 | 1653254.10 | 1312.84 | 1313.05 | 2.00 | 30.0-35.0 | 12.97 | 1299.87 | 13.10 | 1299.95 | 13.14 | 1299.91 |
| SK-4S | upper | 10/23/2000 | 1701330.43 | 1653252.27 | 1312.80 | 1313.03 | 2.00 | 6.75-21.75 | 12.92 | 1299.88 | 13.07 | 1299.73 | 13.09 | 1299.71 |
| SK-5D | lower | 10/24/2000 | 1701423.85 | 1653532.62 | 1313.65 | 1313.96 | 2.00 | 32.25-37.25 | 13.91 | 1299.74 | 14.05 | 1299.60 | 14.10 | 1299.55 |
| SK-5S | upper | 10/24/2000 | 1701423.92 | 1653527.32 | 1313.49 | 1314.03 | 2.00 | 8.5-23.5 | 13.91 | 1299.58 | 14.12 | 1299.37 | 14.12 | 1299.37 |
| SK-6S | upper | 10/23/2000 | 1701608.68 | 1654227.91 | 1316.98 | 1317.25 | 2.00 | 11.75-26.75 | 17.92 | 1299.06 | 17.95 | 1299.03 | 18.02 | 1298.96 |
| SK-7D | lower | 10/22/2004 | 1701808.09 | 1653334.16 | 1317.72 | 1318.10 | 2.00 | 34.51-39.51 | 17.10 | 1300.62 | 17.23 | 1300.49 | 17.22 | 1300.50 |
| SK-8D | lower | 10/22/2004 | 1701719.18 | 165388.71 | 1315.08 | 1315.44 | 2.00 | 31.12-36.12 | 15.00 | 1300.08 | 15.16 | 1299.92 | 15.19 | 1299.89 |
| SK-8S | upper | 10/23/2004 | 1701727.12 | 1653882.32 | 1314.78 | 1315.04 | 2.00 | 12.35-22.35 | 14.93 | 1299.85 | 15.01 | 1299.77 | 15.10 | 1299.68 |
| SK-9D | lower | 10/22/2004 | 1701719.46 | 1663526.15 | 1316.42 | 1316.89 | 2.00 | 34.25-39.25 | 16.11 | 1300.31 | 16.30 | 1300.59 | 16.33 | 1300.56 |
| SK-10S | upper | 11/9/2001 | 1701327.72 | 1654179.32 | 1316.64 | 1316.99 | 2.00 | 10.0-25.0 | 19.09 | 1297.55 | 19.01 | 1297.63 | 19.19 | 1297.45 |
| SK-11S | upper | 11/9/2001 | 1701114.53 | 1654067.02 | 1316.78 | 1317.07 | 2.00 | 13.0-28.0 | 19.13 | 1297.65 | 19.10 | 1297.68 | 19.26 | 1297.52 |
| SK-12D | lower | 2/1/2005 | 1701322.93 | 1653380.88 | 1313.14 | 1313.54 | 2.00 | 32.5-37.5 | ~ | ~ | 13.56 | 1299.58 | 13.61 | 1299.53 |
| SK-12S | upper | 2/1/2005 | 1701323.30 | 1653376.82 | 1313.08 | 1313.52 | 2.00 | 11.0-21.0 | ~ | ~ | 13.58 | 1299.50 | 13.57 | 1299.51 |
| SK-13S | upper | 2/1/2005 | 1701212.23 | 1654274.74 | 1312.60 | 1313.14 | 2.00 | 13.0-23.0 | ~ | ~ | ~ | ~ | 15.80 | 1296.80 |
| SK-B68 | upper | 11/12/2001 | 1701525.19 | 1653521.19 | 1314.08 | 1314.51 | 1.00 | 15.0-25.0 | 14.05 | 1300.03 | 14.25 | 1299.83 | 14.22 | 1299.86 |
| SK-B92 | upper | 8/22/2002 | 1701459.89 | 1653204.80 | 1313.19 | 1312.74 | 1.00 | 11.0-21.0 | 13.00 | 1300.19 | 13.21 | 1299.98 | 13.20 | 1299.99 |
| RSC-1 | fully penetrating | Unknown | 1701409.55 | 1653990.47 | 1315.49 | 1315.87 | 4.00 | 8.5-38.5 | 16.03 | 1299.46 | 16.10 | 1299.39 | 16.23 | 1299.26 |
| HRI-03 | fully penetrating | Unknown | 1701323.78 | 1653072.28 | 1312.46 | 1312.53 | 4.00 | 15-35 | 12.47 | 1299.99 | 12.60 | 1299.86 | 12.65 | 1299.81 |
| WND-32S | upper | 7/31/1991 | 1701737.09 | 1653110.92 | 1318.20 | 1318.75 | 2.00 | 14.00-24.00 | 17.45 | 1300.75 | 17.65 | 1300.60 | 17.65 | 1300.60 |
| WND-32D | lower | 7/2/2001 | 1701740.97 | 1653117.53 | 1318.75 | 1318.82 | 1.00 | 29.60-39.50 | 17.59 | 1301.16 | 18.21 | 1300.61 | 18.09 | 1300.73 |
| MW-10 | upper | 5/19/1994 | 1701907.56 | 1653522.30 | 1318.11 | 1318.64 | 2.00 | 13.50-23.50 | 17.26 | 1300.85 | 17.44 | 1300.67 | 17.45 | 1300.66 |
| MW-11 | upper | 5/19/1994 | 1701719.78 | 1653520.73 | 1316.57 | 1316.89 | 2.00 | 14.00-24.00 | 16.39 | 1300.18 | 16.60 | 1299.97 | 16.57 | 1300.00 |

**Table 2**
**Monitoring Well Construction Summary and Fluid Levels**
**Clean Harbors Kansas, LLC**

| Well ID | Completion Zone | Date Installed | Survey Coordinates | | TOC Elevation | Protective Casing Elevation (ft-msl) | Casing Diameter (inches) | Screened Interval (ft below TOC) | Oct-04 | | Feb.-05 | | Mar-05 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Northing | Easting | | | | | DTW (ft) | GW Elevation (ft-msl) | DTW (ft) | GW Elevation (ft-msl) | DTW (ft) | GW Elevation (ft-msl) |
| MW-14 | upper | 10/5/1994 | 1701812.20 | 1653352.03 | 1317.74 | 1317.90 | 2.00 | 14.60-24.60 | 17.10 | 1300.64 | 17.33 | 1300.41 | 17.30 | 1300.44 |
| MW-15 | upper | 10/5/1994 | 1701807.49 | 1653800.87 | 1315.95 | ND | 2.00 | 15-25 | 15.96 | 1299.99 | 15.94 | 1300.01 | 15.96 | 1299.99 |
| MW-18 | upper | 10/5/1994 | ND | ND | 1317.91 | ND | 2.00 | 15-25 | 18.28 | 1299.63 | 19.29 | 1298.62 | NM | NM |
| SK-OW-1 | upper | 6/11/1989 | ND | ND | ND | unknown | 6.00 | ?? - 33.00 | ND | ND | 16.06 | 1299.56 | NM | NM |

Note:
~ = Well not installed at time of gauging.
DTW = Depth to Water
ND - No Data Available
ft-msl = elevation in feet above mean sea level
TOC = Top of Casing
Survey in State Plane Coordinate System
AB = Monitoring Wells UPRR-1, UPRR-2 and HRI-02 were abandoned during the RFI due to damage and/or poor initial construction of each well.

# Table 3
## Groundwater Sample Analytical Results for Volatile Organic Compounds in Monitoring Wells in µg/L
## Clean Harbors Kansas, LLC

| Location | Date | Sample Type | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | Benzene | Bromodichloromethane | Carbon tetrachloride | Chlorodibromomethane | Chloroform | cis-1,2-Dichloroethene | Ethane | Ethylbenzene | Isopropylbenzene | m-Xylene & p-Xylene | Methane | Methylene chloride | n-Butylbenzene | n-Propylbenzene | Naphthalene | o-Xylene | p-Isopropyltoluene | sec-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Contaminant Level (MCL) | | | 200 | *0.055* | *810* | 7 | NA | 70 | *12* | *12* | 75 | 5 | 80 | 5 | 80 | 80 | 70 | NA | 700 | *660* | 10000 | NA | *4.3* | *240* | *240* | *6.2* | 10000 | NA | *240* | 5 | 1000 | 100 | 5 | 2 |
| HRI-03 | 4/25/2001 | | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 4.30 | <2.00 | 7.00 | <2.00 | 2.60 | 13.0 | <0.500 | <2.00 | <2.00 | <4.00 | 0.760 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 11.0 | <2.00 | <1.00 | 95.0 | <2.00 |
| | 11/11/2001 | | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | 6.40 | <4.00 | <4.00 | 21.0 | <0.500 | <4.00 | <4.00 | <8.00 | 2.90 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <2.00 | 120 | <4.00 |
| | 8/25/2002 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 | <2.00 | <0.500 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 8.20 | <1.00 | <0.500 | 26.0 | <1.00 |
| | 10/22/2003 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.00 | <1.00 | <1.00 | 3.10 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 21.0 | <1.00 | <0.500 | 31.0 | <1.00 |
| | 10/20/2004 | | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 3.30 | <2.00 | 4.00 U | 14.0 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 3.70 | <2.00 | <1.00 | 75.0 | <2.00 |
| | 2/2/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 4.60 | <1.00 | 7.40 | <1.00 | 8.60 | 11.0 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 5.80 | <1.00 | <0.500 | 56.0 | <1.00 |
| MW-10 | 4/25/2001 | | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | 0.820 | <20.0 | <20.0 | <40.0 | 1300 D | <20.0 | <20.0 | <20.0 | 140 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <10.00 | <20.0 | <20.0 |
| | 11/11/2001 | | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | 0.600 | <40.0 | <40.0 | <80.0 | 1900 D | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <20.0 | <40.0 | <40.0 |
| | 8/25/2002 | | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <0.500 | <4.00 | <4.00 | <8.00 | 2400 D | <4.00 | <4.00 | 8.40 | 150 | <4.00 | <4.00 | 5.90 | <4.00 | <4.00 | <2.00 | 13.0 | <4.00 |
| | 10/21/2003 | | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | -- | <10.00 | <10.00 | <20.0 | -- | <10.00 | <10.00 | <10.00 | 89.0 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <5.00 | 13.0 | <10.00 |
| | 10/20/2004 | | <2.70 | 50.0 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | 3.90 | -- | <2.70 | 3.90 | <5.30 | -- | <2.70 | 15.0 | 11.0 | 100 | <2.70 | <2.70 | 10.00 | <2.70 | <2.70 | <1.30 | 13.0 | <2.70 |
| | 2/1/2005 | | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | -- | <10.00 | <10.00 | < 20 | -- | <10.00 | 23.0 | 20.0 | 270 | <10.00 | <10.00 | 18.0 | <10.00 | <10.00 | <5.00 | 18.0 | <10.00 |
| MW-11 | 4/25/2001 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 | <2.00 | 1.40 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 11/11/2001 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.60 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | 1.40 | <2.00 | 2700 D | <1.00 | <1.00 | 2.00 | <1.00 | <1.00 | <1.00 | 2.50 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 11/11/2001 | DUP | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.50 | <0.500 | <1.00 | 1.90 | <2.00 | 1900 D | <1.00 | 5.40 | 2.70 | 5.90 | <1.00 | <1.00 | 2.40 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 8/25/2002 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 | <2.00 | <0.500 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 10/21/2003 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 10/20/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.10 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 2/1/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| MW-14 | 4/25/2001 | | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <0.500 | <10.00 | <10.00 | <20.0 | 850 D | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <5.00 | 11.0 | <10.00 |
| | 11/11/2001 | | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <0.500 | <40.0 | <40.0 | <80.0 | 720 D | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <40.0 | <20.0 | <40.0 | <40.0 |
| | 8/25/2002 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.20 | <0.500 | <1.00 | 1.70 | <2.00 | 96.0 D | <1.00 | <1.00 | 1.00 | 7.10 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 2.60 | <1.00 |
| | 10/21/2003 | | <1.00 | 1.90 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.30 | <1.00 | <1.00 | <0.500 | 2.90 | <1.00 |
| | 10/20/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 3.90 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | 1.10 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 4.50 | <1.00 |
| | 2/1/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 3.40 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | 2.60 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 9.30 | <1.00 |
| MW-15 | 10/21/2003 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 3.80 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 14.0 | <1.00 |
| | 10/19/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 3.60 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 9.60 | <1.00 |
| | 2/1/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 2.50 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 6.80 | <1.00 |

µg/L = micrograms per liter
Detections are shown in bold.
Detections that exceed the MCL are shaded.
NA = Not available
-- = Not Analyzed
If USEPA has not promulgated an MCL for a listed constituent, Region 9 PRG values for Tap Water were used. PRG values are *italicized.*
MCL values were obtained from EPA 822-R-04-005 Drinking Water Standards and Health Advisories Table, Winter 2004
USEPA Region 9 PRG values were obtained from the table published in October 2004.
Data Validation Qualifier of "U" indicates that the analyte was detected in the associated field blank.
Laboratory Data Qualifier of "D" indicates that the reported result was obtained from analysis of a dilution.

# Table 3
## Groundwater Sample Analytical Results for Volatile Organic Compounds in Monitoring Wells in µg/L
## Clean Harbors Kansas, LLC

| Location | Date | Sample Type | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | Benzene | Bromodichloromethane | Carbon tetrachloride | Chlorodibromomethane | Chloroform | cis-1,2-Dichloroethene | Ethane | Ethylbenzene | Isopropylbenzene | m-Xylene & p-Xylene | Methane | Methylene chloride | n-Butylbenzene | n-Propylbenzene | Naphthalene | o-Xylene | p-Isopropyltoluene | sec-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Contaminant Level (MCL) | | | 200 | *0.055* | *810* | 7 | NA | 70 | *12* | *12* | 75 | 5 | 80 | 5 | 80 | 80 | 70 | NA | 700 | *660* | 10000 | NA | *4.3* | *240* | *240* | *6.2* | 10000 | NA | *240* | 5 | 1000 | 100 | 5 | 2 |
| MW-18 | 10/21/2003 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 10/19/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 2/1/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| RSC-1 | 4/25/2001 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 | <2.00 | **0.900** | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | **3.10** | <1.00 |
| | 11/11/2001 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 | <2.00 | **1.10** | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | **4.90** | <1.00 |
| | 8/25/2002 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 | <2.00 | **0.810** | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | **7.60** | <1.00 |
| | 10/21/2003 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **1.20** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | **14.0** | <1.00 |
| | 10/21/2003 | DUP | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **1.20** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | **14.0** | <1.00 |
| | 10/20/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **1.30** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | **20.0** | <1.00 |
| | 2/1/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **1.30** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | < 0.5 | **18.0** | <1.00 |
| SK-10S | 11/11/2001 | | <4.00 | <4.00 | **11.0** | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | **110** | **2.20** | <4.00 | <4.00 | <8.00 | **27.0** | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | **56.0** | <4.00 | <2.00 | **9.70** | **51.0** |
| | 11/11/2001 | DUP | <4.00 | <4.00 | **14.0** | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | **140** | **2.30** | <4.00 | <4.00 | <8.00 | **27.0** | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | **67.0** | <4.00 | <2.00 | **12.0** | **59.0** |
| | 8/25/2002 | | <3.30 | <3.30 | **7.30** | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | **110** | **0.830** | <3.30 | <3.30 | <6.70 | **28.0** | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | **69.0** | <3.30 | <1.70 | **14.0** | **28.0** |
| | 10/21/2003 | | <1.00 | <1.00 | **7.40** | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **16.0** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **16.0** | <1.00 | **0.890** | **4.40** | **5.30** |
| | 10/19/2004 | | <1.00 | <1.00 | **7.50** | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **9.50** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **9.20** | <1.00 | **1.60** | **4.70** | **12.0** |
| | 2/2/2005 | | <1.00 | <1.00 | **5.00** | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **15.0** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **11.0** | <1.00 | **1.20** | **3.90** | **19.0** |
| SK-11S | 11/11/2001 | | **8.30** | <1.00 | **2.00** | **1.40** | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **32.0** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **3.90** | <1.00 | <0.500 | **16.0** | <1.00 |
| | 8/25/2002 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **6.90** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **2.00** | <1.00 | <0.500 | **15.0** | <1.00 |
| | 10/21/2003 | | **32.0** | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | **360** | -- | <20.0 | <20.0 | <40.0 | -- | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | **56.0** | <20.0 | <10.00 | **64.0** | <20.0 |
| | 10/19/2004 | | **89.0** | <10.00 | **17.0** | **11.0** | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | **500** | -- | <10.00 | <10.00 | <20.0 | -- | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | **48.0** | <10.00 | <5.00 | **60.0** | **14.0** |
| | 2/2/2005 | | **18.0** | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | **95.0** | -- | <5.00 | <5.00 | <10.00 | -- | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | **19.0** | <5.00 | <2.50 | **52.0** | <5.00 |
| SK-12D | 2/2/2005 | | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | **15.0** | -- | <2.70 | <2.70 | <5.30 | -- | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | **2.80** | <2.70 | <1.30 | **77.0** | <2.70 |
| SK-12S | 2/2/2005 | | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | -- | <20.0 | <20.0 | <40.0 | -- | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | **350** | <20.0 | <10.00 | **23.0** | <20.0 |
| SK-13S | 3/17/2005 | | **1.30** | <1.00 | <1.00 | **6.70** | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **1.20** | <1.00 | <0.500 | <1.00 | <1.00 |

µg/L = micrograms per liter
Detections are shown in bold.
Detections that exceed the MCL are shaded.
NA = Not available
-- = Not Analyzed
If USEPA has not promulgated an MCL for a listed constituent, Region 9 PRG values for Tap Water were used. PRG values are *italicized*.
MCL values were obtained from EPA 822-R-04-005 Drinking Water Standards and Health Advisories Table, Winter 2004
USEPA Region 9 PRG values were obtained from the table published in October 2004.
Data Validation Qualifier of "U" indicates that the analyte was detected in the associated field blank.
Laboratory Data Qualifier of "D" indicates that the reported result was obtained from analysis of a dilution.

# Table 3
## Groundwater Sample Analytical Results for Volatile Organic Compounds in Monitoring Wells in µg/L
## Clean Harbors Kansas, LLC

| Location | Date | Sample Type | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,2,5-Trimethylbenzene | 1,3-Dichlorobenzene | Benzene | Bromodichloromethane | Carbon tetrachloride | Chlorodibromomethane | Chloroform | cis-1,2-Dichloroethene | Ethane | Ethylbenzene | Isopropylbenzene | m-Xylene & p-Xylene | Methane | Methylene chloride | n-Butylbenzene | n-Propylbenzene | Naphthalene | o-Xylene | p-Isopropyltoluene | sec-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Contaminant Level (MCL) | | | 200 | *0.055* | *810* | 7 | NA | 70 | *12* | *12* | 75 | 5 | 80 | 5 | 80 | 80 | 70 | NA | 700 | *660* | 10000 | NA | *4.3* | *240* | *240* | *6.2* | 10000 | NA | *240* | 5 | 1000 | 100 | 5 | 2 |
| SK-1D | 10/26/2000 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **2.20** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **3.20** | <1.00 | <0.500 | <1.00 | <1.00 |
| | 4/24/2001 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 11/11/2001 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 11/11/2001 | DUP | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 8/25/2002 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 10/21/2003 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | **4.60** | <1.00 |
| | 10/19/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | **7.70** | <1.00 |
| | 2/2/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | **8.30** | <1.00 |
| | 2/2/2005 | DUP | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | **7.30** | <1.00 |
| SK-1S | 10/26/2000 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **1.40** | <1.00 | <0.500 | <1.00 | <1.00 |
| | 4/24/2001 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **1.20** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **3.40** | <1.00 | <0.500 | <1.00 | **1.80** |
| | 11/11/2001 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **3.30** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **24.0** | <1.00 | <0.500 | **2.10** | <1.00 |
| | 8/25/2002 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **2.90** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **10.00** | <1.00 | <0.500 | **1.30** | <1.00 |
| | 8/25/2002 | DUP | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **6.10** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **21.0** | <1.00 | <0.500 | **2.60** | <1.00 |
| | 10/21/2003 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **6.50** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **8.80** | <1.00 | <0.500 | **3.20** | **3.60** |
| | 10/19/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **1.10** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **4.70** | <1.00 | <0.500 | **4.20** | <1.00 |
| | 2/2/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **3.50** | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | **10.00** | <1.00 | <0.5 | **4.80** | **2.70** |
| SK-2D | 10/26/2000 | | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | **58.0** | -- | <10.00 | <10.00 | <20.0 | **7.90** | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | **20.0** | <10.00 | <5.00 | **240** | <10.00 |
| | 10/26/2000 | DUP | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | **53.0** | -- | <10.00 | <10.00 | <20.0 | **4.70** | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | **13.0** | <10.00 | <5.00 | **290** | <10.00 |
| | 4/24/2001 | | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | **42.0** | -- | <20.0 | <20.0 | <40.0 | **9.90** | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <10.00 | **270** | <20.0 |
| | 11/11/2001 | | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | **39.0** | -- | <4.00 | <4.00 | <8.00 | **1.70** | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <2.00 | **210** | <4.00 |
| | 8/25/2002 | | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | **23.0** | -- | <2.50 | <2.50 | <5.00 | **2.80** | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <1.20 | **140** | <2.50 |
| | 10/22/2003 | | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | **13.0** | -- | <5.00 | <5.00 | <10.00 | -- | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <2.50 | **81.0** | <5.00 |
| | 10/20/2004 | | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | **42.0** | -- | <6.70 | <6.70 | <13.0 | -- | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <3.30 | **210** | <6.70 |
| | 2/2/2005 | | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | **40.0** | -- | <10.00 | <10.00 | <20.0 | -- | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <5.00 | **220** | <10.00 |

µg/L = micrograms per liter
Detections are shown in bold.
Detections that exceed the MCL are shaded.
NA = Not available
-- = Not Analyzed
If USEPA has not promulgated an MCL for a listed constituent, Region 9 PRG values for Tap Water were used. PRG values are *italicized.*
MCL values were obtained from EPA 822-R-04-005 Drinking Water Standards and Health Advisories Table, Winter 2004
USEPA Region 9 PRG values were obtained from the table published in October 2004.
Data Validation Qualifier of "U" indicates that the analyte was detected in the associated field blank.
Laboratory Data Qualifier of "D" indicates that the reported result was obtained from analysis of a dilution.

# Table 3
## Groundwater Sample Analytical Results for Volatile Organic Compounds in Monitoring Wells in µg/L
## Clean Harbors Kansas, LLC

| Location | Date | Sample Type | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | Benzene | Bromodichloromethane | Carbon tetrachloride | Chlorodibromomethane | Chloroform | cis-1,2-Dichloroethene | Ethane | Ethylbenzene | Isopropylbenzene | m-Xylene & p-Xylene | Methane | Methylene chloride | n-Butylbenzene | n-Propylbenzene | Naphthalene | o-Xylene | p-Isopropyltoluene | sec-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Contaminant Level (MCL) | | | 200 | *0.055* | *810* | 7 | NA | 70 | *12* | *12* | 75 | 5 | 80 | 5 | 80 | 80 | 70 | NA | 700 | *660* | 10000 | NA | *4.3* | *240* | *240* | *6.2* | 10000 | NA | *240* | 5 | 1000 | 100 | 5 | 2 |
| SK-2S | 10/26/2000 | | 6.30 | <1.00 | 2.30 | 1.20 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 38.0 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 31.0 | <1.00 | <0.500 | 19.0 | <1.00 |
| | 4/24/2001 | | 150 | <20.0 | 35.0 | <20.0 | 26.0 | 22.0 | <20.0 | <20.0 | 23.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | 730 | -- | <20.0 | <20.0 | <40.0 | -- | <20.0 | <20.0 | <20.0 | 29.0 | <20.0 | <20.0 | <20.0 | 600 | <20.0 | <10.00 | 390 | <20.0 |
| | 11/11/2001 | | 38.0 | <8.00 | 17.0 | <8.00 | <8.00 | <8.00 | <8.00 | <8.00 | <8.00 | <8.00 | <8.00 | <8.00 | <8.00 | <8.00 | 260 | -- | <8.00 | <8.00 | <16.0 | -- | <8.00 | <8.00 | <8.00 | <8.00 | <8.00 | <8.00 | <8.00 | 180 | <8.00 | <4.00 | 100 | <8.00 |
| | 8/25/2002 | | 300 | <33.0 | 47.0 | <33.0 | <33.0 | <33.0 | <33.0 | <33.0 | <33.0 | <33.0 | <33.0 | <33.0 | <33.0 | <33.0 | 1500 | -- | <33.0 | <33.0 | <67.0 | -- | <33.0 | <33.0 | <33.0 | <33.0 | <33.0 | <33.0 | <33.0 | 1100 | <33.0 | <17.0 | 570 | <33.0 |
| | 10/22/2003 | | 44.0 | <10.00 | 16.0 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 200 | -- | <10.00 | <10.00 | <20.0 | -- | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 370 | <10.00 | <5.00 | 180 | <10.00 |
| | 10/20/2004 | | 34.0 | <6.70 | 13.0 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | 270 | -- | <6.70 | <6.70 | <13.0 | -- | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | 290 | <6.70 | <3.30 | 150 | <6.70 |
| | 2/2/2005 | | 30.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | 280 | -- | <20.0 | < 20 | <40.0 | -- | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | <20.0 | 360 | <20.0 | <10.00 | 160 | <20.0 |
| SK-3D | 10/26/2000 | | 7.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 2.20 | <2.00 | 2.70 | 2.50 | 18.0 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 66.0 | <2.00 | <1.00 | 42.0 | <2.00 |
| | 4/24/2001 | | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | 12.0 | -- | <4.00 | <4.00 | <8.00 | -- | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <2.00 | 90.0 | <4.00 |
| | 4/25/2001 | DUP | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 13.0 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 2.00 | <2.00 | <1.00 | 94.0 | <2.00 |
| | 11/11/2001 | | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 11.0 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <1.00 | 69.0 | <2.00 |
| | 8/25/2002 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 7.10 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 54.0 | <1.00 |
| | 10/22/2003 | | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | 14.0 | -- | <3.30 | <3.30 | <6.70 | -- | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <1.70 | 89.0 | <3.30 |
| | 10/20/2004 | | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | 20.0 | -- | <4.00 | <4.00 | <8.00 | -- | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <2.00 | 92.0 | <4.00 |
| | 2/2/2005 | | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 16.0 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 2.40 | <2.00 | <1.00 | 88.0 | <2.00 |
| SK-3S | 10/26/2000 | | 1.70 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 13.0 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 17.0 | <1.00 | <0.500 | 7.40 | <1.00 |
| | 4/24/2001 | | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 130 | 35.0 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | -- | 67.0 | <10.00 | 230 | -- | <10.00 | <10.00 | 20.0 | <10.00 | 88.0 | <10.00 | <10.00 | 11.0 | 200 | <5.00 | 46.0 | <10.00 |
| | 11/11/2001 | | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 55.0 | 13.0 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 6.70 | -- | 33.0 | 2.10 | 120 | -- | <2.00 | <2.00 | 6.70 | 3.80 | 44.0 | <2.00 | <2.00 | 8.00 | 87.0 | <1.00 | 35.0 | <2.00 |
| | 11/11/2001 | DUP | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | 57.0 | 14.0 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | 7.10 | -- | 32.0 | <5.00 | 120 | -- | <5.00 | <5.00 | 6.20 | <5.00 | 44.0 | <5.00 | <5.00 | 9.20 | 93.0 | <2.50 | 35.0 | <5.00 |
| | 8/25/2002 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 28.0 | 10.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 4.20 | -- | 35.0 | 1.90 | 110 | -- | <1.00 | <1.00 | 5.30 | <1.00 | 37.0 | <1.00 | <1.00 | 9.60 | 60.0 | <0.500 | 30.0 | <1.00 |
| | 8/25/2002 | DUP | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 26.0 | 9.60 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 4.20 | -- | 34.0 | <2.00 | 110 | -- | <2.00 | <2.00 | 5.60 | <2.00 | 35.0 | <2.00 | <2.00 | 9.90 | 57.0 | <1.00 | 31.0 | <2.00 |
| | 10/22/2003 | | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 28.0 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 13.0 | -- | 100 | <10.00 | 330 | -- | <10.00 | <10.00 | 17.0 | 17.0 | 130 | <10.00 | <10.00 | 19.0 | 250 | <5.00 | 60.0 | <10.00 |
| | 10/20/2004 | | 1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 33.0 | 9.40 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 4.50 | -- | 15.0 | <1.00 | 68.0 | -- | <1.00 | <1.00 | 2.20 | 2.50 | 23.0 | <1.00 | <1.00 | 9.50 | 28.0 | <0.500 | 25.0 | <1.00 |
| | 10/20/2004 | DUP | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 31.0 | 8.40 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 4.30 | -- | 14.0 | <1.00 | 63.0 | -- | <1.00 | <1.00 | 2.10 | 2.20 | 21.0 | <1.00 | <1.00 | 8.90 | 26.0 | <0.500 | 24.0 | <1.00 |
| | 2/2/2005 | | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 52.0 | 12.0 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 6.30 | -- | 18.0 | <2.00 | 100.0 | -- | <2.00 | <2.00 | 3.20 | 5.50 | 37.0 | <2.00 | <2.00 | 4.70 | 34.0 | <1.00 | 32.0 | <2.00 |
| SK-4D | 11/11/2001 | | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 11.0 | <0.500 | <2.00 | <2.00 | <4.00 | 1.90 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 3.50 | <2.00 | <1.00 | 63.0 | <2.00 |
| | 8/25/2002 | | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 10.00 | <0.500 | <2.00 | <2.00 | <4.00 | 0.550 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 3.10 | <2.00 | <1.00 | 63.0 | <2.00 |
| | 10/21/2003 | | 3.10 | <1.00 | 3.00 | 1.40 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.20 | 22.0 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | 1.70 | <1.00 | <1.00 | <1.00 | 29.0 | <1.00 | <0.500 | 25.0 | 4.30 |
| | 10/20/2004 | | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 11.0 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 7.50 | <2.00 | <1.00 | 57.0 | <2.00 |
| | 2/2/2005 | | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 16.0 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 4.30 | <2.00 | <1.00 | 80.0 | <2.00 |

µg/L = micrograms per liter
Detections are shown in bold.
Detections that exceed the MCL are shaded.
NA = Not available
-- = Not Analyzed
If USEPA has not promulgated an MCL for a listed constituent, Region 9 PRG values for Tap Water were used. PRG values are *italicized.*
MCL values were obtained from EPA 822-R-04-005 Drinking Water Standards and Health Advisories Table, Winter 2004
USEPA Region 9 PRG values were obtained from the table published in October 2004.
Data Validation Qualifier of "U" indicates that the analyte was detected in the associated field blank.
Laboratory Data Qualifier of "D" indicates that the reported result was obtained from analysis of a dilution.

# Table 3
## Groundwater Sample Analytical Results for Volatile Organic Compounds in Monitoring Wells in µg/L
## Clean Harbors Kansas, LLC

| Location | Date | Sample Type | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | Benzene | Bromodichloromethane | Carbon tetrachloride | Chlorodibromomethane | Chloroform | cis-1,2-Dichloroethene | Ethane | Ethylbenzene | Isopropylbenzene | m-Xylene & p-Xylene | Methane | Methylene chloride | n-Butylbenzene | n-Propylbenzene | Naphthalene | o-Xylene | p-Isopropyltoluene | sec-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Contaminant Level (MCL) | | | 200 | *0.055* | *810* | 7 | NA | 70 | *12* | *12* | 75 | 5 | 80 | 5 | 80 | 80 | 70 | NA | 700 | *660* | 10000 | NA | *4.3* | *240* | *240* | *6.2* | 10000 | NA | *240* | 5 | 1000 | 100 | 5 | 2 |
| SK-4S | 10/27/2000 | | 15.0 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 23.0 | -- | <10.00 | <10.00 | <20.0 | -- | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 160 | <10.00 | <5.00 | 33.0 | <10.00 |
| | 4/25/2001 | | 24.0 | <5.00 | 5.90 | 5.90 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | 17.0 | -- | <5.00 | <5.00 | <10.00 | -- | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | 110 | <5.00 | <2.50 | 18.0 | <5.00 |
| | 4/25/2001 | DUP | 24.0 | <5.00 | 5.70 | 5.60 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | 18.0 | -- | <5.00 | <5.00 | <10.00 | -- | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | 98.0 | <5.00 | <2.50 | 17.0 | <5.00 |
| | 11/11/2001 | | 11.0 | <2.00 | 7.80 | 3.60 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 45.0 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 76.0 | <2.00 | <1.00 | 12.0 | <2.00 |
| | 8/25/2002 | | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 97.0 | -- | <10.00 | <10.00 | <20.0 | -- | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 360 | <10.00 | <5.00 | 22.0 | <10.00 |
| | 10/21/2003 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 19.0 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 39.0 | <1.00 | <0.500 | 3.00 | 1.10 |
| | 10/20/2004 | | 9.60 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | 42.0 | -- | <4.00 | <4.00 | <8.00 | -- | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | 170 | <4.00 | <2.00 | 16.0 | <4.00 |
| | 2/2/2005 | | 4.20 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 39.0 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 55.0 | <1.00 | <0.500 | 12.0 | 1.20 |
| SK-5D | 10/26/2000 | | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | 270 | 74.0 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | 10.00 | -- | 26.0 | 7.70 | 76.0 | -- | <3.30 | <3.30 | 35.0 | 19.0 | 19.0 | 6.40 | <3.30 | <3.30 | 7.80 | <1.70 | 74.0 | <3.30 |
| | 4/24/2001 | | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | 25.0 | -- | <5.00 | <5.00 | <10.00 | -- | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <2.50 | 180 | <5.00 |
| | 11/11/2001 | | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | 20.0 | -- | <4.00 | <4.00 | <8.00 | -- | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <2.00 | 120 | <4.00 |
| | 8/25/2002 | | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | 25.0 | -- | <5.00 | <5.00 | <10.00 | -- | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <2.50 | 170 | <5.00 |
| | 10/21/2003 | | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | 13.0 | -- | <1.30 | <1.30 | <2.70 | -- | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <1.30 | <0.660 | 77.0 | <1.30 |
| | 10/20/2004 | | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | 26.0 | -- | <6.70 | <6.70 | <13.0 | -- | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <3.30 | 130 | <6.70 |
| | 2/2/2005 | | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 31.0 | -- | <10.00 | <10.00 | <20.0 | -- | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <5.00 | 170 | <10.00 |
| SK-5S | 10/26/2000 | | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | 120 | 42.0 | <4.00 | <4.00 | <4.00 | 6.30 | <4.00 | 20.0 | 8.20 | -- | 33.0 | <4.00 | 120 | -- | <4.00 | <4.00 | 12.0 | 15.0 | 41.0 | <4.00 | <4.00 | 6.00 | 54.0 | <2.00 | 63.0 | <4.00 |
| | 4/24/2001 | | 5.90 | <1.00 | 2.40 | 1.20 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 37.0 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 46.0 | <1.00 | <0.500 | 22.0 | <1.00 |
| | 11/11/2001 | | 24.0 | <4.00 | 10.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | 120 | -- | <4.00 | <4.00 | <8.00 | -- | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | 230 | <4.00 | <2.00 | 90.0 | <4.00 |
| | 8/25/2002 | | 6.50 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | 81.0 | -- | <4.00 | <4.00 | <8.00 | -- | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | 63.0 | <4.00 | <2.00 | 32.0 | <4.00 |
| | 10/21/2003 | | 9.00 | <2.00 | 3.60 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 54.0 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | 2.40 | <2.00 | <2.00 | <2.00 | 100 | <2.00 | <1.00 | 50.0 | <2.00 |
| | 10/20/2004 | | 3.10 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 21.0 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 39.0 | <1.00 | <0.500 | 13.0 | <1.00 |
| | 2/2/2005 | | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 16.0 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 61.0 | <2.00 | <1.00 | 15.0 | <2.00 |

µg/L = micrograms per liter
Detections are shown in bold.
Detections that exceed the MCL are shaded.
NA = Not available
-- = Not Analyzed
If USEPA has not promulgated an MCL for a listed constituent, Region 9 PRG values for Tap Water were used. PRG values are *italicized*.
MCL values were obtained from EPA 822-R-04-005 Drinking Water Standards and Health Advisories Table, Winter 2004
USEPA Region 9 PRG values were obtained from the table published in October 2004.
Data Validation Qualifier of "U" indicates that the analyte was detected in the associated field blank.
Laboratory Data Qualifier of "D" indicates that the reported result was obtained from analysis of a dilution.

# Table 3
## Groundwater Sample Analytical Results for Volatile Organic Compounds in Monitoring Wells in µg/L
## Clean Harbors Kansas, LLC

| Location | Date | Sample Type | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | Benzene | Bromodichloromethane | Carbon tetrachloride | Chlorodibromomethane | Chloroform | cis-1,2-Dichloroethene | Ethane | Ethylbenzene | Isopropylbenzene | m-Xylene & p-Xylene | Methane | Methylene chloride | n-Butylbenzene | n-Propylbenzene | Naphthalene | o-Xylene | p-Isopropyltoluene | sec-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Contaminant Level (MCL) | | | 200 | *0.055* | *810* | 7 | NA | 70 | *12* | *12* | 75 | 5 | 80 | 5 | 80 | 80 | 70 | NA | 700 | *660* | 10000 | NA | *4.3* | *240* | *240* | *6.2* | 10000 | NA | *240* | 5 | 1000 | 100 | 5 | 2 |
| SK-6S | 10/26/2000 | | <1.00 | <1.00 | 1.70 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 4/24/2001 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 11/11/2001 | | <1.00 | <1.00 | 2.80 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 2.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 8/25/2002 | | <1.00 | <1.00 | 2.20 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 3.80 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.00 | <1.00 | <0.500 | 9.20 | <1.00 |
| | 10/21/2003 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.20 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 1.30 | <1.00 |
| | 10/19/2004 | | 3.00 | <1.00 | 7.20 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.90 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 2.10 | <1.00 | <0.500 | 5.50 | <1.00 |
| | 2/2/2005 | | 2.60 | <1.00 | 6.60 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.20 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 3.50 | <1.00 | <0.500 | 2.30 | <1.00 |
| SK-7D | 10/21/2004 | | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 45.0 | <0.500 | <10.00 | <10.00 | <20.0 | 1.60 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <5.00 | 200 | <10.00 |
| | 10/21/2004 | DUP | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 44.0 | <0.500 | <10.00 | <10.00 | <20.0 | 1.40 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <5.00 | 210 | <10.00 |
| | 2/1/2005 | | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | 42.0 | -- | <6.70 | <6.70 | <13.0 | -- | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <6.70 | <3.30 | 210 | <6.70 |
| | 2/1/2005 | DUP | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 39.0 | -- | <10.00 | <10.00 | <20.0 | -- | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <5.00 | 200 | <10.00 |
| SK-8D | 10/21/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 2.20 | <0.500 | <1.00 | <1.00 | <2.00 | 1.40 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 40.0 | <1.00 |
| | 2/2/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.90 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 39.00 | <1.00 |
| | 2/2/2005 | DUP | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 2.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 38.0 | <1.00 |
| SK-8S | 10/21/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 2.10 | <0.500 | <1.00 | <1.00 | <2.00 | 55.0 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 7.80 | <1.00 |
| | 2/2/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 1.90 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 7.50 | <1.00 |
| SK-9D | 10/21/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 8.30 | <0.500 | <1.00 | <1.00 | <2.00 | 1.10 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 47.0 | <1.00 |
| | 2/1/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 11.0 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 57.0 | <1.00 |
| SK-B68 | 11/12/2001 | | 20.0 | <2.50 | 2.70 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | 89.0 | <0.500 | <2.50 | <2.50 | <5.00 | 700 D | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | 5.90 | <2.50 | <1.20 | 8.30 | <2.50 |
| | 11/12/2001 | DUP | 120 | <10.00 | 18.0 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 370 | <0.500 | <10.00 | <10.00 | <20.0 | 740 D | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | <10.00 | 26.0 | <10.00 | <5.00 | 40.0 | <10.00 |
| | 8/26/2002 | | 110 | <2.50 | 6.70 | 7.40 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | 83.0 | <0.500 | <2.50 | <2.50 | <5.00 | 500 D | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | 32.0 | <2.50 | <1.20 | 29.0 | <2.50 |
| | 10/22/2003 | | 20.0 | <1.00 | 1.20 | 1.10 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 25.0 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 15.0 | <1.00 | <0.500 | 12.0 | <1.00 |
| | 10/19/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 14.0 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 1.60 | <1.00 |
| | 2/1/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 21.0 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |

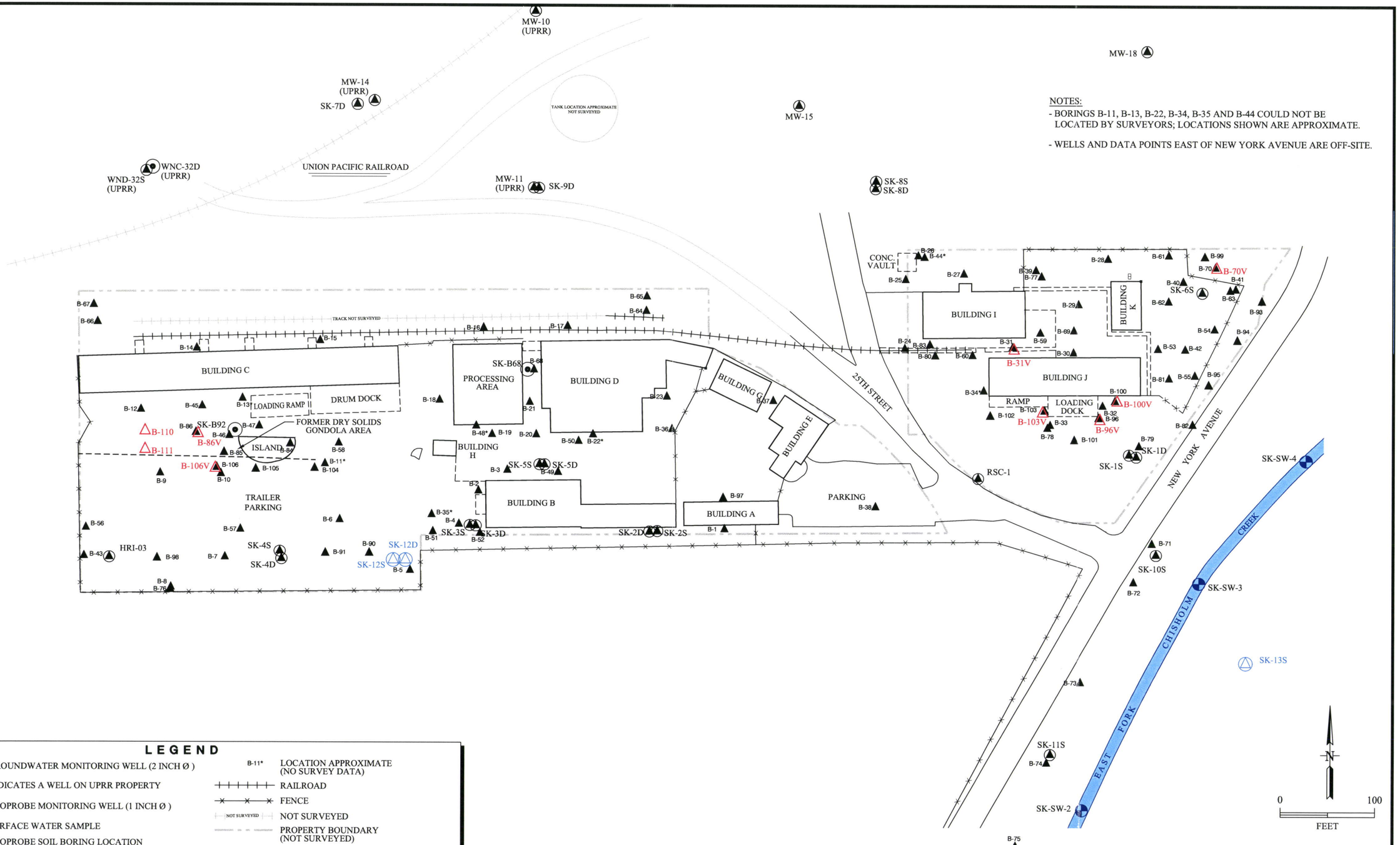
µg/L = micrograms per liter
Detections are shown in bold.
Detections that exceed the MCL are shaded.
NA = Not available
-- = Not Analyzed
If USEPA has not promulgated an MCL for a listed constituent, Region 9 PRG values for Tap Water were used. PRG values are *italicized.*
MCL values were obtained from EPA 822-R-04-005 Drinking Water Standards and Health Advisories Table, Winter 2004
USEPA Region 9 PRG values were obtained from the table published in October 2004.
Data Validation Qualifier of "U" indicates that the analyte was detected in the associated field blank.
Laboratory Data Qualifier of "D" indicates that the reported result was obtained from analysis of a dilution.

# Table 3
## Groundwater Sample Analytical Results for Volatile Organic Compounds in Monitoring Wells in µg/L
## Clean Harbors Kansas, LLC

| Location | Date | Sample Type | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | Benzene | Bromodichloromethane | Carbon tetrachloride | Chlorodibromomethane | Chloroform | cis-1,2-Dichloroethene | Ethane | Ethylbenzene | Isopropylbenzene | m-Xylene & p-Xylene | Methane | Methylene chloride | n-Butylbenzene | n-Propylbenzene | Naphthalene | o-Xylene | p-Isopropyltoluene | sec-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Contaminant Level (MCL) | | | 200 | *0.055* | *810* | 7 | NA | 70 | *12* | *12* | 75 | 5 | 80 | 5 | 80 | 80 | 70 | NA | 700 | *660* | 10000 | NA | *4.3* | *240* | *240* | *6.2* | 10000 | NA | *240* | 5 | 1000 | 100 | 5 | 2 |
| SK-B92 | 8/26/2002 | | 4.30 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | 31.0 | <2.50 | 38.0 | 5.40 | -- | <2.50 | <2.50 | <5.00 | -- | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | 100 | <2.50 | <1.20 | 37.0 | <2.50 |
| | 8/26/2002 | DUP | 4.10 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | 30.0 | <2.50 | 37.0 | 5.20 | -- | <2.50 | <2.50 | <5.00 | -- | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | 94.0 | <2.50 | <1.20 | 35.0 | <2.50 |
| | 10/22/2003 | | 15.0 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 6.70 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 100 | <2.00 | <1.00 | 6.50 | <2.00 |
| | 10/22/2003 | DUP | 17.0 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 7.80 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 120 | <2.00 | <1.00 | 7.60 | <2.00 |
| | 10/19/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 2.50 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 27.0 | <1.00 | <0.500 | 11.0 | <1.00 |
| | 2/1/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 2.70 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 42.0 | <1.00 | <0.500 | 15.0 | <1.00 |
| SK-OW1 | 8/26/2002 | | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | 18.0 | -- | <2.50 | <2.50 | <5.00 | -- | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <1.20 | 110 | <2.50 |
| WND-32D | 11/13/2001 | | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 17.0 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <1.00 | 110 | <2.00 |
| | 8/26/2002 | | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | 13.0 | -- | <2.50 | <2.50 | <5.00 | -- | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <2.50 | <1.20 | 78.0 | <2.50 |
| | 8/26/2002 | DUP | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | 13.0 | -- | <2.00 | <2.00 | <4.00 | -- | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <2.00 | <1.00 | 79.0 | <2.00 |
| | 10/21/2003 | | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | 18.0 | -- | <3.30 | <3.30 | <6.70 | -- | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <3.30 | <1.70 | 110 | <3.30 |
| | 10/19/2004 | | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | 15.0 | -- | <2.70 | <2.70 | <5.30 | -- | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <1.30 | 72.0 | <2.70 |
| | 2/1/2005 | | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | 20.0 | -- | <5.00 | <5.00 | < 10 | -- | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <2.50 | 83.0 | <5.00 |
| | 2/1/2005 | DUP | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | 21.0 | -- | <4.00 | <4.00 | <8.00 | -- | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <4.00 | <2.00 | 88.0 | <4.00 |
| WND-32S | 4/25/2001 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 17.0 | <1.00 | 44.0 | 1.30 | -- | <1.00 | <1.00 | <2.00 | -- | 1.20 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 13.0 | <1.00 |
| | 11/11/2001 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 6.60 | <1.00 | 32.0 | 1.10 | -- | <1.00 | <1.00 | <2.00 | -- | 1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 11.0 | <1.00 |
| | 8/25/2002 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 2.50 | 1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | 12.0 | <1.00 |
| | 10/21/2003 | | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | -- | <2.70 | <2.70 | <5.30 | -- | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <2.70 | <1.30 | <2.70 | <2.70 |
| | 10/20/2004 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <0.500 | <1.00 | <1.00 |
| | 2/1/2005 | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | -- | <1.00 | <1.00 | <2.00 | -- | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 3.10 | <1.00 |

µg/L = micrograms per liter
Detections are shown in bold.
Detections that exceed the MCL are shaded.
NA = Not available
-- = Not Analyzed
If USEPA has not promulgated an MCL for a listed constituent, Region 9 PRG values for Tap Water were used. PRG values are *italicized.*
MCL values were obtained from EPA 822-R-04-005 Drinking Water Standards and Health Advisories Table, Winter 2004
USEPA Region 9 PRG values were obtained from the table published in October 2004.
Data Validation Qualifier of "U" indicates that the analyte was detected in the associated field blank.
Laboratory Data Qualifier of "D" indicates that the reported result was obtained from analysis of a dilution.

NOTES:
- BORINGS B-11, B-13, B-22, B-34, B-35 AND B-44 COULD NOT BE LOCATED BY SURVEYORS; LOCATIONS SHOWN ARE APPROXIMATE.
- WELLS AND DATA POINTS EAST OF NEW YORK AVENUE ARE OFF-SITE.




## LEGEND

- GROUNDWATER MONITORING WELL (2 INCH Ø )
- (UPRR) INDICATES A WELL ON UPRR PROPERTY
- GEOPROBE MONITORING WELL (1 INCH Ø )
- SURFACE WATER SAMPLE
- GEOPROBE SOIL BORING LOCATION (DRILLED AND SAMPLED 1999-2002)
- B-11* LOCATION APPROXIMATE (NO SURVEY DATA)
- RAILROAD
- FENCE
- NOT SURVEYED
- PROPERTY BOUNDARY (NOT SURVEYED)
- RECENTLY INSTALLED (JAN-MAR 2005) CLEAN HARBORS MONITORING WELL
- RECENTLY DRILLED AND SAMPLED (JAN 2005) CLEAN HARBORS SOIL BORING LOCATION ("V" INDICATES VERIFICATION SAMPLE LOCATION)

SOURCE: CARLSON SURVEYING, APRIL 2, 2002

| | BY | DATE |
|---|---|---|
| DRAWN | WRB | 3/29/05 |
| CHECKED | | |
| APPROVED | | |
| APPROVED | | |
| APPROVED | | |

CAMERON-COLE

FIGURE 1

EXISTING AND RECENTLY INSTALLED SOIL BORING AND MONITORING WELL LOCATIONS
CLEAN HARBORS KANSAS, LLC.

SCALE: 1" = 100'

DWG. NO.: 1808-34

NOT SURVEYED

BUILDING C

DRUM DOCK

LOADING RAMP

ISLAND

SWMU #24
AREA SOUTH OF
BUILDING C

SWMU #17
FORMER DRY
SOLIDS GONDOLA

B-14

B-15

B-12

B-45

B-13

B-110

B-86

B-86V

SK-B92

B-46

B-47

B-58

B-84

B-85

B-111

B-106V

B-106

B-105

B-104

| B-14 - 12/99 | 4 inch |
|---|---|
| Analyte | Result |
| VOC's | ND |

| B-15 - 12/99 | 3 ft. |
|---|---|
| Analyte | Result |
| VOC's | ND |

| B-86 - 8/02 | 3.5 ft. | 11 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 19,000 | 1,800 |
| TCE | 1,400 | ND |

| B-13 - 12/99 | 3 ft. | 12 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 800 | 35 |

| B-86V - 1/31/05 | 3.5 ft. | 12 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 45000 | 1200 |
| TCE | 3800 | 14 |
| cis-1,2-DCE | 14 | ND |
| trans-1,2-DCE | 4.7 | ND |
| Napth | 22 | ND |
| 1,2,4-TMB | 16 | ND |

| B-12 - 12/99 | 3 ft. |
|---|---|
| Analyte | Result |
| VOC's | ND |

| B-45 - 11/01 | 4 ft. | 14 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 200 | 490 |

| B-110 1/31/05 | 6" | 3 ft. | 13 ft. |
|---|---|---|---|
| Analyte | Result | Result | Result |
| PCE | ND | 32 | 33 |
| cis-1,2-DCE | ND | ND | 4.8 |

| B-47 - 11/01 | 3 ft. | 14 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 540 | 37 |
| TCE | 26 | ND |

| B-46 - 11/01 | 2 ft. | 13 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 28,000 | 690 |

| B-58 - 11/01 | 4 ft. | 16 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 16 | ND |

| B-85 - 8/02 | 3.5 ft. | 10 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 79 | 21 |

| B-84 - 8/02 | 4 ft. | 11.5 ft. |
|---|---|---|
| Analyte | Result | Result |
| DCA | 5.4 | ND |
| PCE | 51 | 10 |

| B-111 1/31/05 | 6" | 3 ft. | 15 ft. |
|---|---|---|---|
| Analyte | Result | Result | Result |
| PCE | 33 | 14 | 9.2 |
| TCE | 10 | ND | ND |

| B-106V - 1/31/05 | 4 ft. | 13 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 120 | 60 |

| B-106 - 8/02 | 4 ft. | 11 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 89 | 84 |

| B-105 - 8/02 | 4 ft. | 11 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 540 | 190 |

| B-104 - 8/02 | 4 ft. | 11.5 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 26 | 19 |

## LEGEND

- GROUNDWATER MONITORING WELL (2 INCH Ø )
- GEOPROBE MONITORING WELL (1 INCH Ø )
- GEOPROBE SOIL BORING (JAN 2005)
- GEOPROBE SOIL BORING (1999-2002)
- GEOPROBE SOIL BORING (1999-2002) (GEOPROBE WATER SAMPLE ALSO COLLECTED)
- AOC LOCATIONS
- SWMU LOCATIONS (DASHED WHERE APPROXIMATE)
- RAILROAD
- FENCE

TCA..... 1,1,1-Trichloroethane
DCA..... 1,1-Dichloroethane
DCE..... 1,1-Dichloroethene
1,2,3-TCB..... 1,2,3-Trichlorobenzene
1,2,4-TCB..... 1,2,4-Trichlorobenzene
1,2,4-TMB..... 1,2,4-Trimethylbenzene
1,2-DCB..... 1,2-Dichlorobenzene
1,3,5-TMB..... 1,3,5-Trimethylbenzene
Benzene..... Benzene
BromoDM..... Bromodichloromethane
$CCl_4$..... Carbon Tetrachloride
ChloroDBM..... Chlorodibromomethane
Cfm..... Chloroform
cis-1,2-DCE..... cis-1,2-Dichloroethene
EB..... Ethyl Benzene
IsopropB..... Isopropylbenzene
m & p Xylenes..... m & p Xylenes
n-bB..... n-Butylbenzene
n-pB..... n-Propylbenzene
Napth..... Naphthalene
o-Xylene..... o-Xylene
p-Isoprop..... p-Isopropyltoluene
sec-bB..... sec-Butylbenzene
tert-ButylB..... tert-Butylbenzene
PCE..... Tetrachloroethene
Toluene..... Toluene
trans-1,2-DCE..... trans-1,2-Dichloroethene
TCE..... Trichloroethene
VC..... Vinyl Chloride
VOCs..... Volatile Organic Compounds
ND..... Non-detect

NOTE: RESULTS IN µg/Kg (PARTS PER BILLION)

N

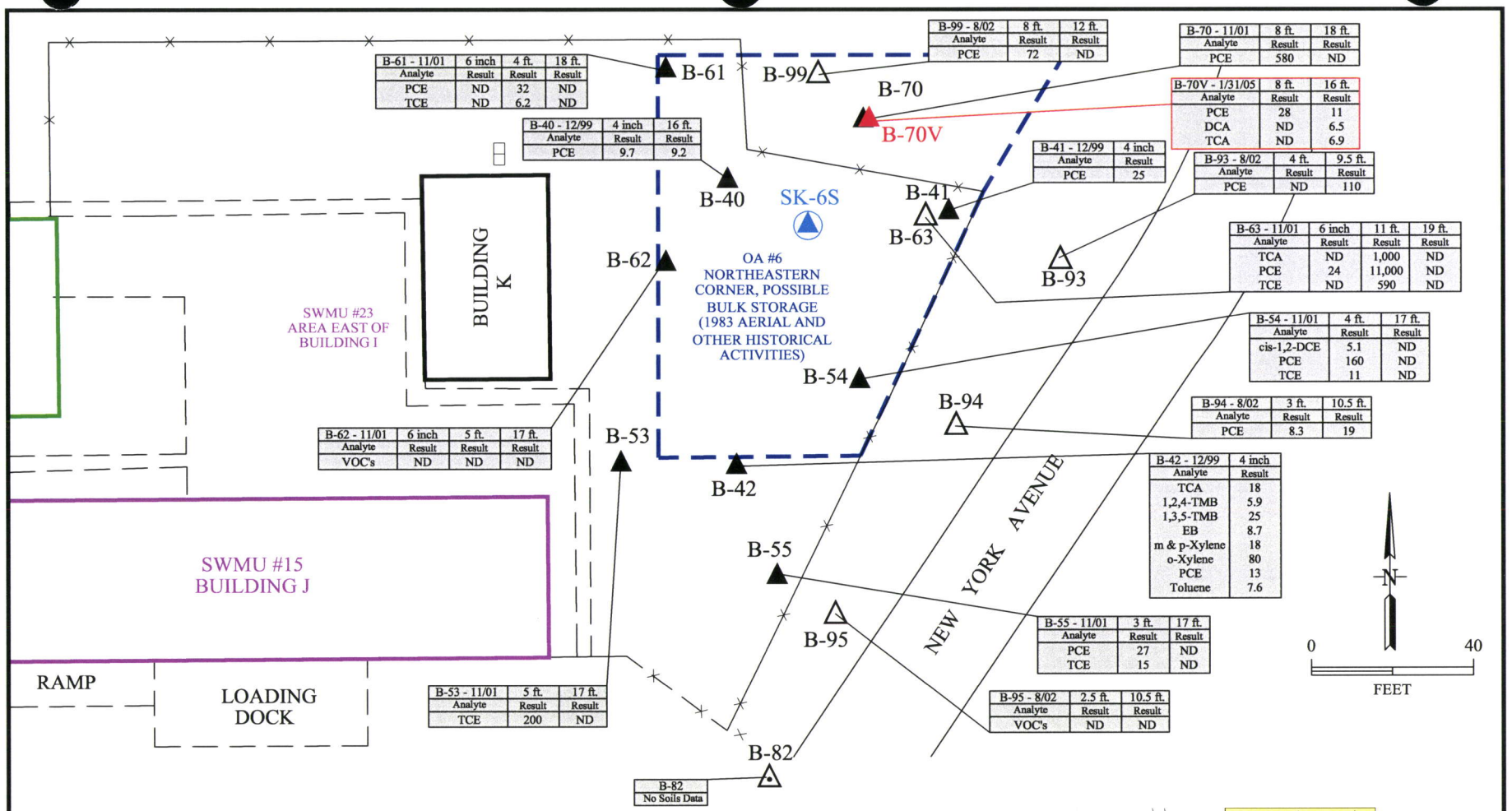
0 40
FEET

CAMERON-COLE

FIGURE 2

ANALYTICAL RESULTS FOR VOCs IN SOIL, INCLUDING VERIFICATION SAMPLES, SWMU #17 AND SWMU #24
CLEAN HARBORS KANSAS, LLC

| SCALE: | DATE: | DWG NO. |
|---|---|---|
| 1" = 40' | 3/30/05 | 1808-32 |




| B-61 - 11/01 | 6 inch | 4 ft. | 18 ft. |
|---|---|---|---|
| Analyte | Result | Result | Result |
| PCE | ND | 32 | ND |
| TCE | ND | 6.2 | ND |

| B-99 - 8/02 | 8 ft. | 12 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 72 | ND |

| B-70 - 11/01 | 8 ft. | 18 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 580 | ND |

| B-70V - 1/31/05 | 8 ft. | 16 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 28 | 11 |
| DCA | ND | 6.5 |
| TCA | ND | 6.9 |

| B-40 - 12/99 | 4 inch | 16 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 9.7 | 9.2 |

| B-41 - 12/99 | 4 inch |
|---|---|
| Analyte | Result |
| PCE | 25 |

| B-93 - 8/02 | 4 ft. | 9.5 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | ND | 110 |

| B-63 - 11/01 | 6 inch | 11 ft. | 19 ft. |
|---|---|---|---|
| Analyte | Result | Result | Result |
| TCA | ND | 1,000 | ND |
| PCE | 24 | 11,000 | ND |
| TCE | ND | 590 | ND |

| B-54 - 11/01 | 4 ft. | 17 ft. |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 5.1 | ND |
| PCE | 160 | ND |
| TCE | 11 | ND |

| B-94 - 8/02 | 3 ft. | 10.5 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 8.3 | 19 |

| B-62 - 11/01 | 6 inch | 5 ft. | 17 ft. |
|---|---|---|---|
| Analyte | Result | Result | Result |
| VOC's | ND | ND | ND |

| B-42 - 12/99 | 4 inch |
|---|---|
| Analyte | Result |
| TCA | 18 |
| 1,2,4-TMB | 5.9 |
| 1,3,5-TMB | 25 |
| EB | 8.7 |
| m & p-Xylene | 18 |
| o-Xylene | 80 |
| PCE | 13 |
| Toluene | 7.6 |

| B-55 - 11/01 | 3 ft. | 17 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 27 | ND |
| TCE | 15 | ND |

| B-53 - 11/01 | 5 ft. | 17 ft. |
|---|---|---|
| Analyte | Result | Result |
| TCE | 200 | ND |

| B-95 - 8/02 | 2.5 ft. | 10.5 ft. |
|---|---|---|
| Analyte | Result | Result |
| VOC's | ND | ND |

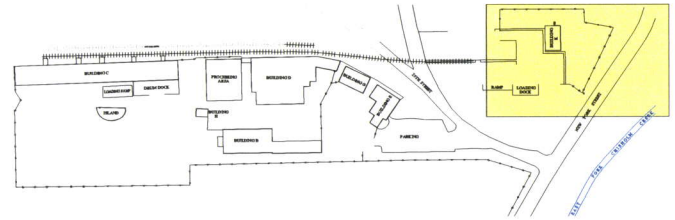
| B-82 |
|---|
| No Soils Data |

## LEGEND

- GROUNDWATER MONITORING WELL (2 INCH Ø )
- GEOPROBE MONITORING WELL (1 INCH Ø )
- GEOPROBE SOIL BORING (JAN 2005)
- GEOPROBE SOIL BORING (1999-2002)
- GEOPROBE SOIL BORING (1999-2002) (GEOPROBE WATER SAMPLE ALSO COLLECTED)
- GEOPROBE WATER SAMPLE ONLY
- AOC LOCATIONS
- SWMU LOCATIONS
- RAILROAD
- FENCE

TCA ..... 1,1,1-Trichloroethane
DCA ..... 1,1-Dichloroethane
DCE ..... 1,1-Dichloroethene
1,2,3-TCB ..... 1,2,3-Trichlorobenzene
1,2,4-TCB ..... 1,2,4-Trichlorobenzene
1,2,4-TMB ..... 1,2,4-Trimethylbenzene
1,2-DCB ..... 1,2-Dichlorobenzene
1,3,5-TMB ..... 1,3,5-Trimethylbenzene
Benzene ..... Benzene
BromoDM ..... Bromodichloromethane
$CCl_4$ ..... Carbon Tetrachloride
ChloroDBM ..... Chlorodibromomethane
Cfm ..... Chloroform
cis-1,2-DCE ..... cis-1,2-Dichloroethene
EB ..... Ethyl Benzene
IsopropB ..... Isopropylbenzene
m & p Xylenes ..... m & p Xylenes
n-bB ..... n-Butylbenzene
n-pB ..... n-Propylbenzene
Napth ..... Naphthalene
o-Xylene ..... o-Xylene
p-Isoprop ..... p-Isopropyltoluene
sec-bB ..... sec-Butylbenzene
tert-ButylB ..... tert-Butylbenzene
PCE ..... Tetrachloroethene
Toluene ..... Toluene
trans-1,2-DCE ..... trans-1,2-Dichloroethene
TCE ..... Trichloroethene
VC ..... Vinyl Chloride
VOCs ..... Volatile Organic Compounds
ND ..... Non-detect

NOTE: RESULTS IN $\mu g/Kg$ (PARTS PER BILLION)

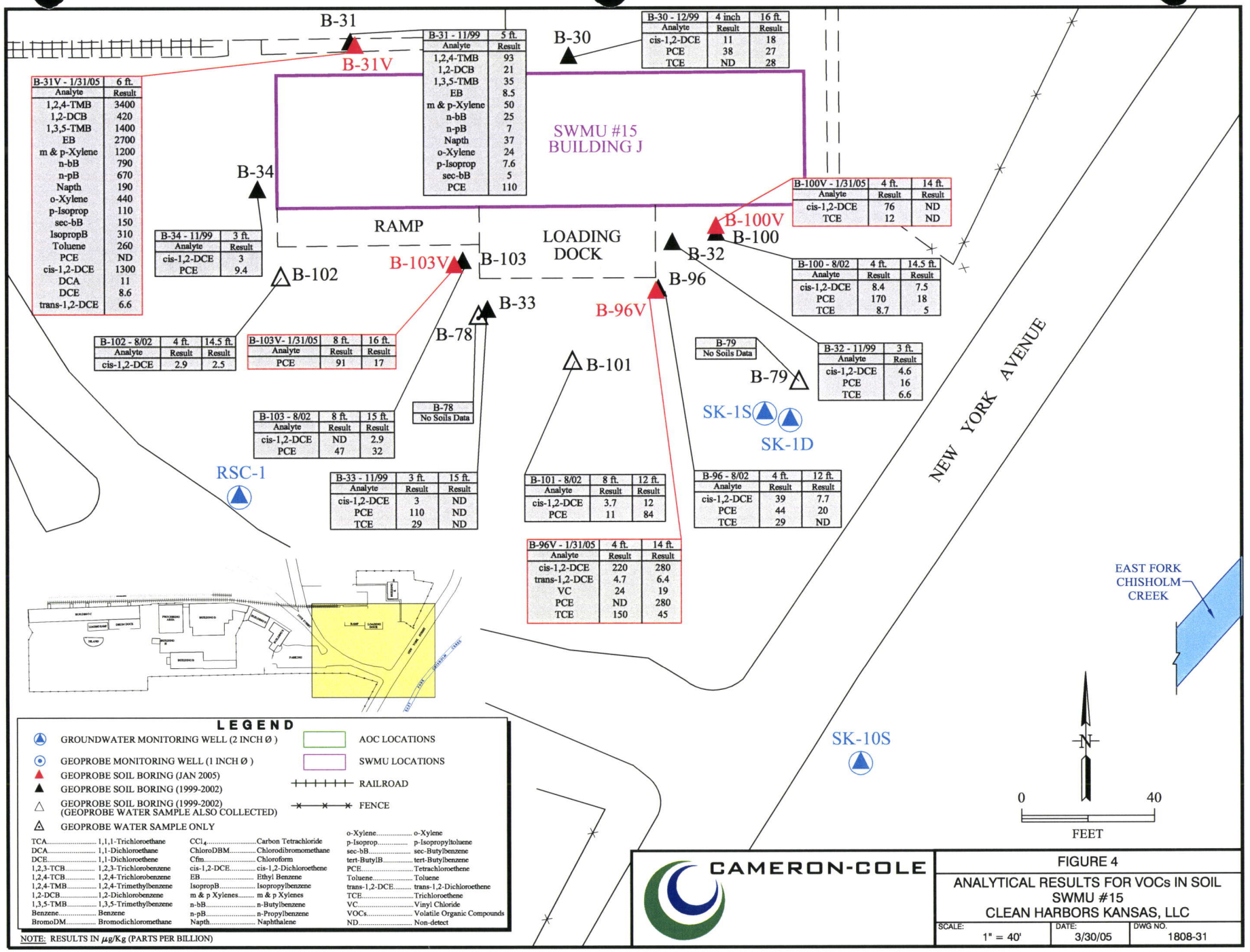


CAMERON-COLE

FIGURE 3

ANALYTICAL RESULTS FOR VOCs IN SOIL
OA #6
CLEAN HARBORS KANSAS, LLC

| SCALE: | DATE: | DWG NO. |
|---|---|---|
| 1" = 40' | 3/29/05 | 1808-33 |




| B-31V - 1/31/05 | 6 ft. |
|---|---|
| Analyte | Result |
| 1,2,4-TMB | 3400 |
| 1,2-DCB | 420 |
| 1,3,5-TMB | 1400 |
| EB | 2700 |
| m & p-Xylene | 1200 |
| n-bB | 790 |
| n-pB | 670 |
| Napth | 190 |
| o-Xylene | 440 |
| p-Isoprop | 110 |
| sec-bB | 150 |
| IsopropB | 310 |
| Toluene | 260 |
| PCE | ND |
| cis-1,2-DCE | 1300 |
| DCA | 11 |
| DCE | 8.6 |
| trans-1,2-DCE | 6.6 |

| B-31 - 11/99 | 5 ft. |
|---|---|
| Analyte | Result |
| 1,2,4-TMB | 93 |
| 1,2-DCB | 21 |
| 1,3,5-TMB | 35 |
| EB | 8.5 |
| m & p-Xylene | 50 |
| n-bB | 25 |
| n-pB | 7 |
| Napth | 37 |
| o-Xylene | 24 |
| p-Isoprop | 7.6 |
| sec-bB | 5 |
| PCE | 110 |

| B-30 - 12/99 | 4 inch | 16 ft. |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 11 | 18 |
| PCE | 38 | 27 |
| TCE | ND | 28 |

| B-100V - 1/31/05 | 4 ft. | 14 ft. |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 76 | ND |
| TCE | 12 | ND |

| B-34 - 11/99 | 3 ft. |
|---|---|
| Analyte | Result |
| cis-1,2-DCE | 3 |
| PCE | 9.4 |

| B-100 - 8/02 | 4 ft. | 14.5 ft. |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 8.4 | 7.5 |
| PCE | 170 | 18 |
| TCE | 8.7 | 5 |

| B-102 - 8/02 | 4 ft. | 14.5 ft. |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 2.9 | 2.5 |

| B-103V- 1/31/05 | 8 ft. | 16 ft. |
|---|---|---|
| Analyte | Result | Result |
| PCE | 91 | 17 |

| B-32 - 11/99 | 3 ft. |
|---|---|
| Analyte | Result |
| cis-1,2-DCE | 4.6 |
| PCE | 16 |
| TCE | 6.6 |

| B-79 |
|---|
| No Soils Data |

| B-103 - 8/02 | 8 ft. | 15 ft. |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | ND | 2.9 |
| PCE | 47 | 32 |

| B-78 |
|---|
| No Soils Data |

| B-33 - 11/99 | 3 ft. | 15 ft. |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 3 | ND |
| PCE | 110 | ND |
| TCE | 29 | ND |

| B-101 - 8/02 | 8 ft. | 12 ft. |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 3.7 | 12 |
| PCE | 11 | 84 |

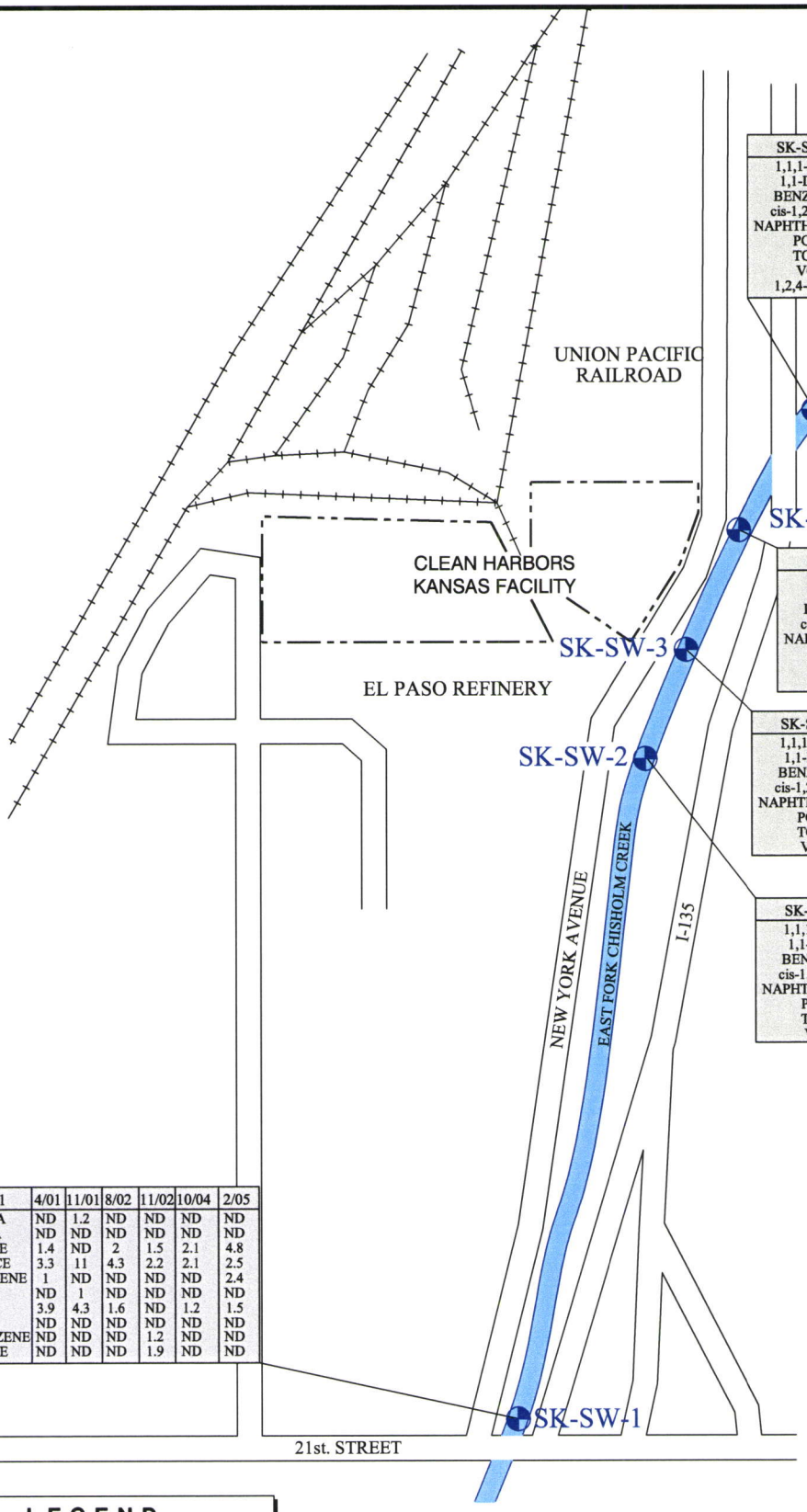
| B-96 - 8/02 | 4 ft. | 12 ft. |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 39 | 7.7 |
| PCE | 44 | 20 |
| TCE | 29 | ND |

| B-96V - 1/31/05 | 4 ft. | 14 ft. |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 220 | 280 |
| trans-1,2-DCE | 4.7 | 6.4 |
| VC | 24 | 19 |
| PCE | ND | 280 |
| TCE | 150 | 45 |

FIGURE 4

ANALYTICAL RESULTS FOR VOCs IN SOIL
SWMU #15
CLEAN HARBORS KANSAS, LLC

| SCALE: | DATE: | DWG NO. |
|---|---|---|
| 1" = 40' | 3/30/05 | 1808-31 |




| SK-SW-5 | 4/01 | 11/01 | 11/01 DUP | 8/02 | 11/02 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| 1,1,1-TCA | ND | ND | ND | ND | ND | ND | ND |
| 1,1-DCA | ND | ND | ND | ND | ND | ND | ND |
| BENZENE | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-DCE | 1 | ND | ND | ND | ND | 1.1 | ND |
| NAPHTHALENE | ND | ND | ND | ND | ND | ND | ND |
| PCE | ND | ND | ND | ND | ND | ND | ND |
| TCE | 4.7 | ND | ND | ND | ND | 3.8 | 1.1 |
| VC | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-TMB | ND | ND | ND | ND | ND | ND | 1.2 |

| SK-SW-4 | 4/01 | 11/01 | 8/02 | 11/02 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|
| 1,1,1-TCA | ND | ND | ND | ND | ND | ND |
| 1,1-DCA | ND | ND | ND | ND | ND | ND |
| BENZENE | ND | ND | ND | ND | ND | ND |
| cis-1,2-DCE | ND | ND | ND | ND | 1.5 | ND |
| NAPHTHALENE | ND | ND | ND | ND | ND | ND |
| PCE | ND | ND | ND | ND | ND | ND |
| TCE | 4 | ND | ND | ND | 3.1 | ND |
| VC | ND | ND | ND | ND | ND | ND |

| SK-SW-3 | 4/01 | 11/01 | 8/02 | 11/02 | 11/02 DUP | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| 1,1,1-TCA | ND | ND | ND | ND | ND | ND | ND |
| 1,1-DCA | ND | ND | ND | ND | ND | ND | ND |
| BENZENE | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-DCE | ND | 1.6 | ND | ND | ND | 2.0 | ND |
| NAPHTHALENE | ND | ND | ND | ND | ND | ND | ND |
| PCE | ND | 1.7 | ND | ND | ND | 1.2 | ND |
| TCE | 3.8 | ND | ND | ND | ND | 2.8 | 1 |
| VC | ND | ND | ND | ND | ND | ND | ND |

| SK-SW-2 | 4/01 | 11/01 | 8/02 | 8/02 DUP | 11/02 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| 1,1,1-TCA | ND | 3.2 | ND | ND | ND | 1.1 | ND |
| 1,1-DCA | ND | 1.2 | ND | ND | ND | ND | ND |
| BENZENE | ND | 3.3 | ND | ND | ND | ND | ND |
| cis-1,2-DCE | 3.4 | 23 | ND | 1.5 | ND | 9.6 | 3.1 |
| NAPHTHALENE | ND | ND | ND | ND | ND | ND | ND |
| PCE | ND | 2.1 | ND | ND | ND | 3.3 | ND |
| TCE | 3.8 | 4.4 | ND | ND | ND | 4.3 | 1.6 |
| VC | ND | 1.1 | ND | ND | ND | ND | ND |

| SK-SW-1 | 4/01 | 11/01 | 8/02 | 11/02 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|
| 1,1,1-TCA | ND | 1.2 | ND | ND | ND | ND |
| 1,1-DCA | ND | ND | ND | ND | ND | ND |
| BENZENE | 1.4 | ND | 2 | 1.5 | 2.1 | 4.8 |
| cis-1,2-DCE | 3.3 | 11 | 4.3 | 2.2 | 2.1 | 2.5 |
| NAPHTHALENE | 1 | ND | ND | ND | ND | 2.4 |
| PCE | ND | 1 | ND | ND | ND | ND |
| TCE | 3.9 | 4.3 | 1.6 | ND | 1.2 | 1.5 |
| VC | ND | ND | ND | ND | ND | ND |
| ETHYLBENZENE | ND | ND | ND | 1.2 | ND | ND |
| TOLUENE | ND | ND | ND | 1.9 | ND | ND |

N

0 500
FEET

**LEGEND**

SURFACE WATER SAMPLE LOCATION

APPROXIMATE CLEAN HARBORS KANSAS FACILITY LOCATION

ND NOT DETECTED

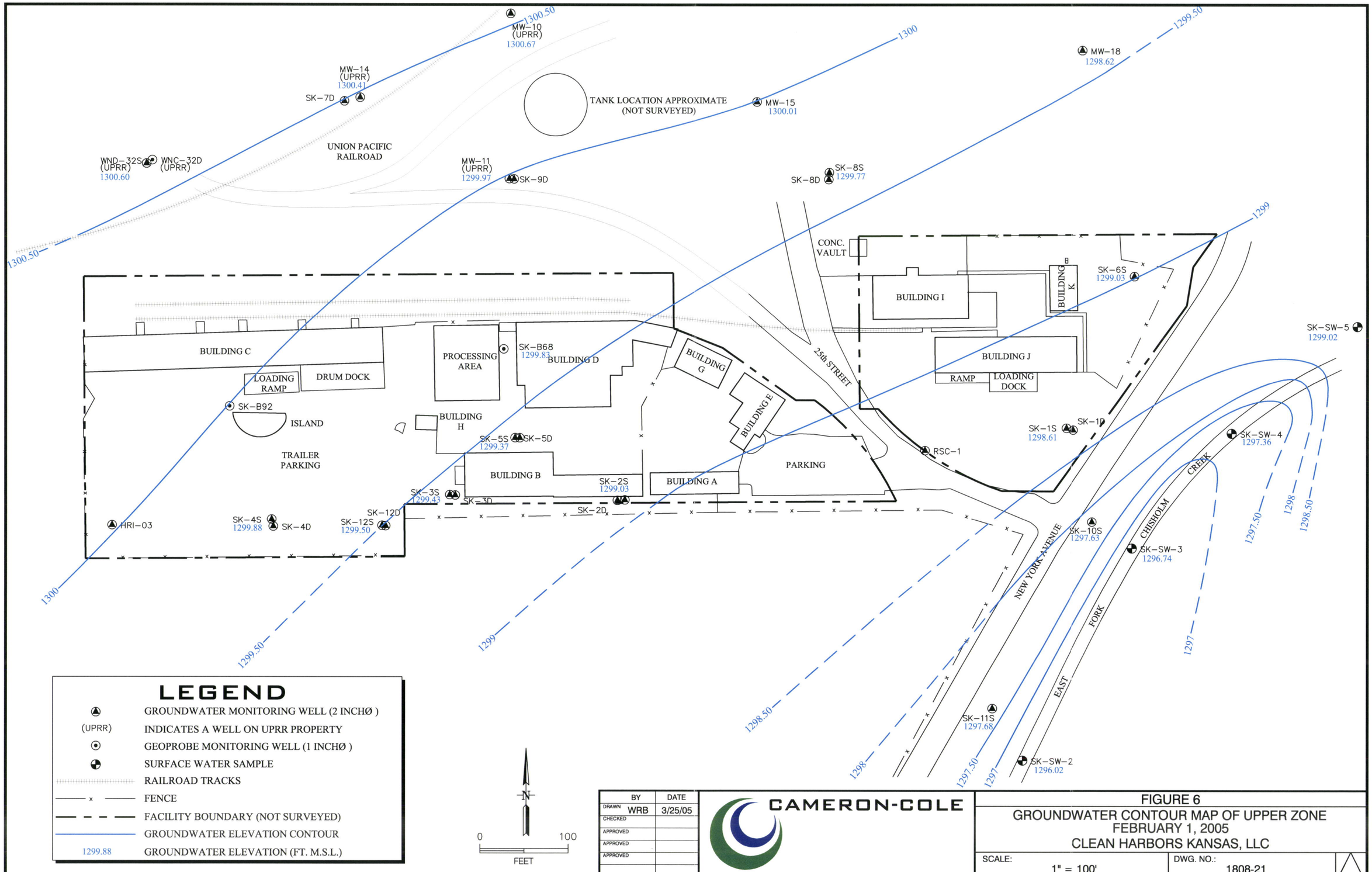
NOTE: ALL ANALYTICAL RESULTS REPORTED IN $\mu g/L$)

CAMERON-COLE

FIGURE 5

SURFACE WATER SAMPLE ANALYTICAL RESULTS
CLEAN HARBORS KANSAS, LLC

| SCALE: | DATE: | DWG NO. |
|---|---|---|
| 1" = 500' | 3/29/05 | 1808-24 |



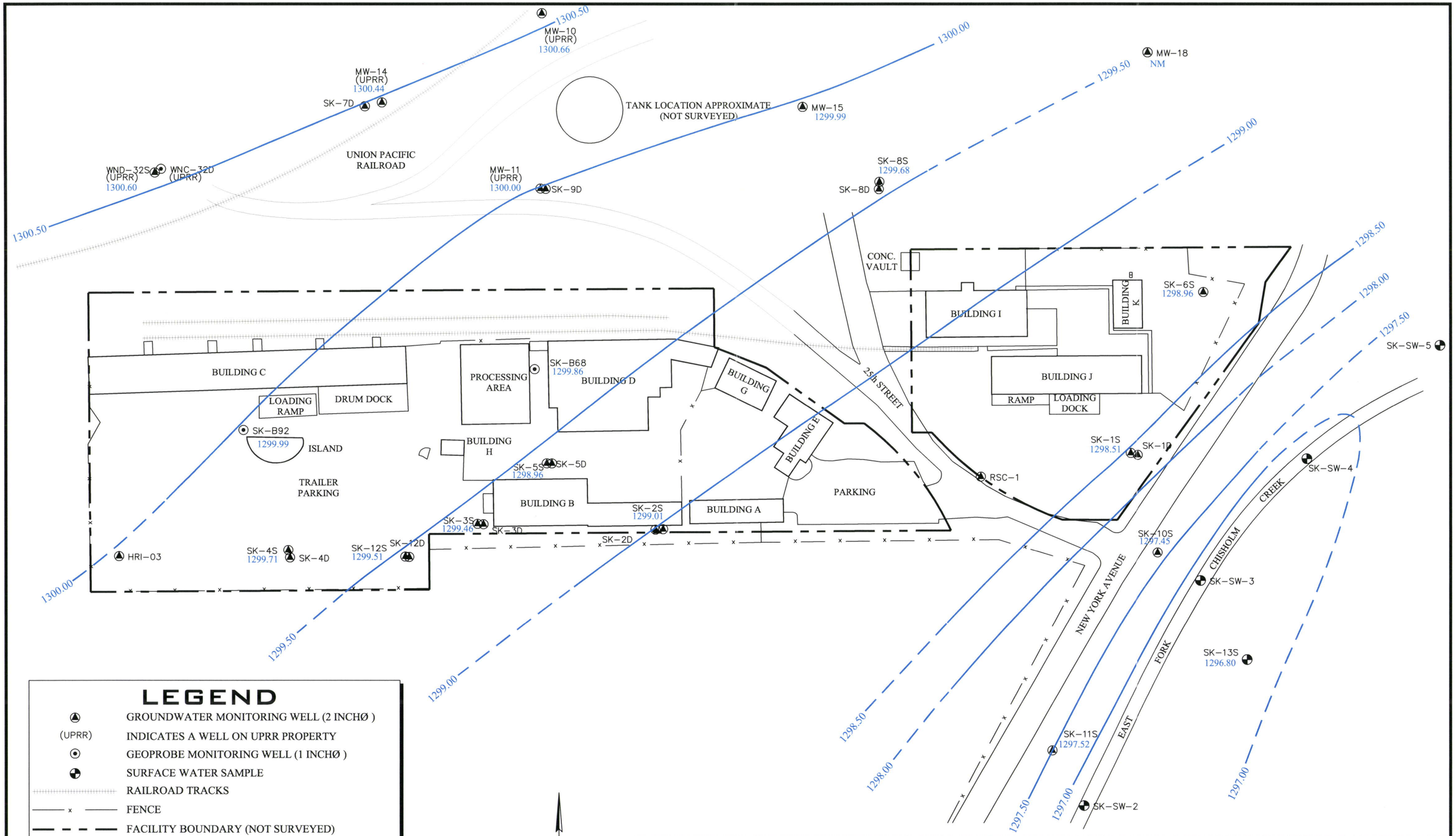

| | BY | DATE |
|---|---|---|
| DRAWN | WRB | 3/25/05 |
| CHECKED | | |
| APPROVED | | |
| APPROVED | | |
| APPROVED | | |

CAMERON-COLE

FIGURE 6
GROUNDWATER CONTOUR MAP OF UPPER ZONE
FEBRUARY 1, 2005
CLEAN HARBORS KANSAS, LLC

SCALE: 1" = 100'

DWG. NO.: 1808-21




## LEGEND

| | |
|---|---|
| ▲ | GROUNDWATER MONITORING WELL (2 INCHØ ) |
| (UPRR) | INDICATES A WELL ON UPRR PROPERTY |
| ⊙ | GEOPROBE MONITORING WELL (1 INCHØ ) |
| ◕ | SURFACE WATER SAMPLE |
| | RAILROAD TRACKS |
| —— x —— | FENCE |
| — — — | FACILITY BOUNDARY (NOT SURVEYED) |
| ——— | GROUNDWATER ELEVATION CONTOUR |
| 1299.88 | GROUNDWATER ELEVATION (FT. M.S.L.) |

WATER LEVELS AT SK-B68 AND WNC-32D WERE MEASURED ON MARCH 17, 2005

| | BY | DATE |
|---|---|---|
| DRAWN | DBB | 03/25/05 |
| CHECKED | | |
| APPROVED | | |
| APPROVED | | |
| APPROVED | | |

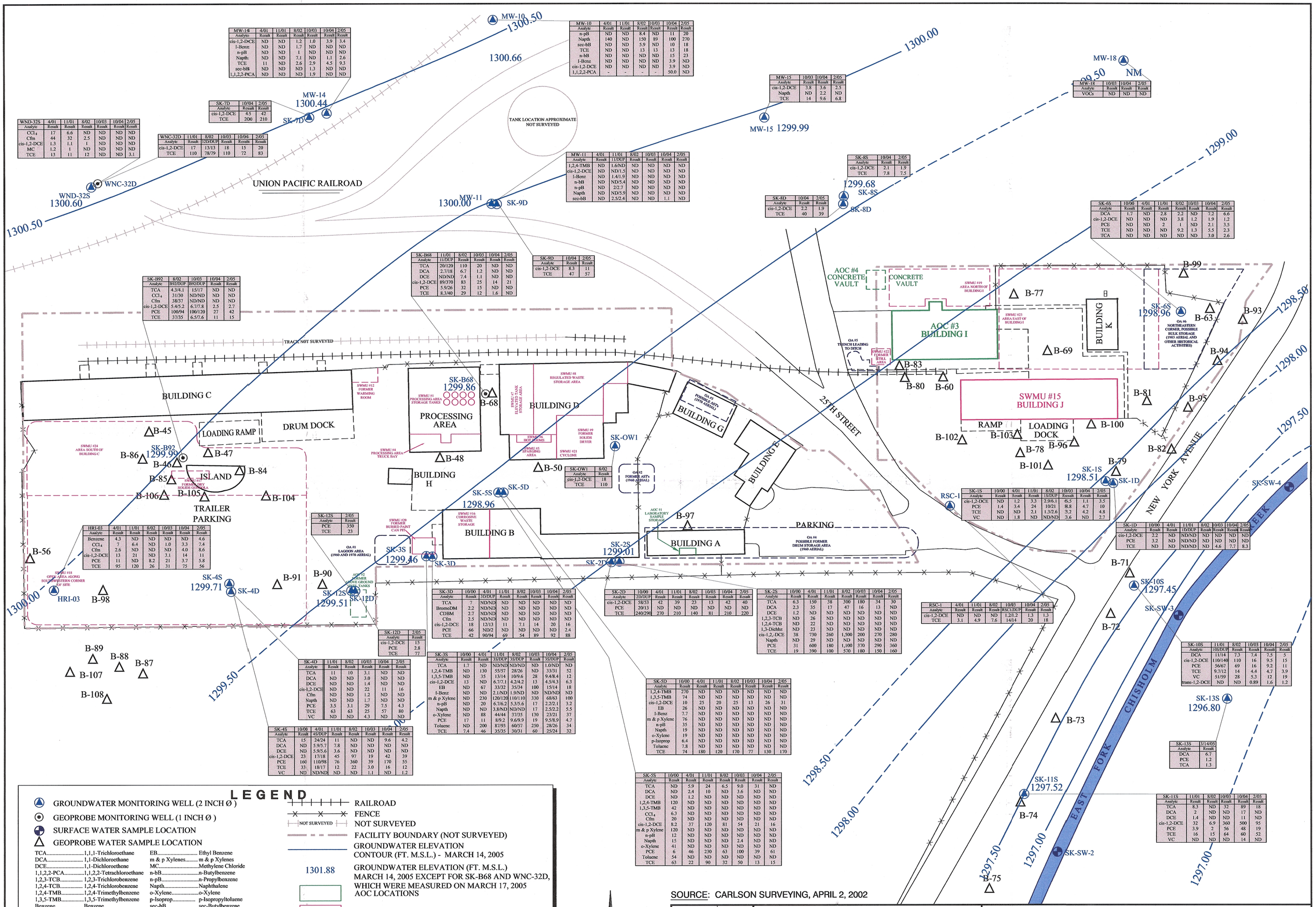
CAMERON-COLE

FIGURE 7

GROUNDWATER CONTOUR MAP OF UPPER ZONE
MARCH 14, 2005
CLEAN HARBORS KANSAS, LLC

SCALE: 1" = 100'

DWG. NO.: 1808-30




| MW-14 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|
| Analyte | Result | Result | Result | Result | Result | Result |
| cis-1,2-DCE | ND | ND | 1.2 | 1.0 | 3.9 | 3.4 |
| t-Benz | ND | ND | 1.7 | ND | ND | ND |
| n-pB | ND | ND | 1 | ND | ND | ND |
| Napth | ND | ND | 7.1 | ND | 1.1 | 2.6 |
| TCE | 11 | ND | 2.6 | 2.9 | 4.5 | 9.3 |
| sec-bB | ND | ND | ND | 1.3 | ND | ND |
| 1,1,2,2-PCA | ND | ND | ND | 1.9 | ND | ND |

| MW-10 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|
| Analyte | Result | Result | Result | Result | Result | Result |
| n-pB | ND | ND | 8.4 | ND | 11 | 20 |
| Napth | 140 | ND | 150 | 89 | 100 | 270 |
| sec-bB | ND | ND | 5.9 | ND | 10 | 18 |
| TCE | ND | ND | 13 | 13 | 13 | 18 |
| n-bB | ND | ND | ND | ND | 15 | 23 |
| t-Benz | ND | ND | ND | ND | 3.9 | ND |
| cis-1,2-DCE | ND | ND | ND | ND | 3.9 | ND |
| 1,1,2,2-PCA | - | - | - | - | 50.0 | ND |

| MW-15 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|
| Analyte | Result | Result | Result |
| cis-1,2-DCE | 3.8 | 3.6 | 2.5 |
| Napth | ND | 2.2 | ND |
| TCE | 14 | 9.6 | 6.8 |

| MW-18 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|
| Analyte | Result | Result | Result |
| VOCs | ND | ND | ND |

| SK-7D | 10/04 | 2/05 |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 4.5 | 42 |
| TCE | 200 | 210 |

| WND-32S | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|
| Analyte | Result | Result | Result | Result | Result | Result |
| $CCl_4$ | 17 | 6.6 | ND | ND | ND | ND |
| Cfm | 44 | 32 | 2.5 | ND | ND | ND |
| cis-1,2-DCE | 1.3 | 1.1 | 1 | ND | ND | ND |
| MC | 1.2 | 1 | ND | ND | ND | ND |
| TCE | 13 | 11 | 12 | ND | ND | 3.1 |

| WNC-32D | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|
| Analyte | Result | 32D/DUP | Result | Result | Result |
| cis-1,2-DCE | 17 | 13/13 | 18 | 15 | 20 |
| TCE | 110 | 78/79 | 110 | 72 | 83 |

| MW-11 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|
| Analyte | Result | 11/DUP | Result | Result | Result | Result |
| 1,2,4-TMB | ND | 1.6/ND | ND | ND | ND | ND |
| cis-1,2-DCE | ND | ND/1.5 | ND | ND | ND | ND |
| t-Benz | ND | 1.4/1.9 | ND | ND | ND | ND |
| n-bB | ND | ND/5.4 | ND | ND | ND | ND |
| n-pB | ND | 2/2.7 | ND | ND | ND | ND |
| Napth | ND | ND/5.9 | ND | ND | ND | ND |
| sec-bB | ND | 2.5/2.4 | ND | ND | 1.1 | ND |

| SK-8S | 10/04 | 2/05 |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 2.1 | 1.9 |
| TCE | 7.8 | 7.5 |

| SK-8D | 10/04 | 2/05 |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 2.2 | 1.9 |
| TCE | 40 | 39 |

| SK-6S | 10/00 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| Analyte | Result | Result | Result | Result | Result | Result | Result |
| DCA | 1.7 | ND | 2.8 | 2.2 | ND | 7.2 | 6.6 |
| cis-1,2-DCE | ND | ND | ND | 3.8 | 1.2 | 1.9 | 1.2 |
| PCE | ND | ND | 2 | 1 | ND | 2.1 | 3.5 |
| TCE | ND | ND | ND | 9.2 | 1.3 | 5.5 | 2.3 |
| TCA | ND | ND | ND | ND | ND | 3.0 | 2.6 |

| SK-B68 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|
| Analyte | 11/DUP | Result | Result | Result | Result |
| TCA | 20/120 | 110 | 20 | ND | ND |
| DCA | 2.7/18 | 6.7 | 1.2 | ND | ND |
| DCE | ND/ND | 7.4 | 1.1 | ND | ND |
| cis-1,2-DCE | 89/370 | 83 | 25 | 14 | 21 |
| PCE | 5.9/26 | 32 | 15 | ND | ND |
| TCE | 8.3/40 | 29 | 12 | 1.6 | ND |

| SK-9D | 10/04 | 2/05 |
|---|---|---|
| Analyte | Result | Result |
| cis-1,2-DCE | 8.3 | 11 |
| TCE | 47 | 57 |

| SK-B92 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|
| Analyte | B92/DUP | B92/DUP | Result | Result |
| TCA | 4.3/4.1 | 15/17 | ND | ND |
| $CCl_4$ | 31/30 | ND/ND | ND | ND |
| Cfm | 38/37 | ND/ND | ND | ND |
| cis-1,2-DCE | 5.4/5.2 | 6.7/7.8 | 2.5 | 2.7 |
| PCE | 100/94 | 100/120 | 27 | 42 |
| TCE | 37/35 | 6.5/7.6 | 11 | 15 |

| SK-OW1 | 8/02 |
|---|---|
| Analyte | Result |
| cis-1,2-DCE | 18 |
| TCE | 110 |

| SK-1S | 10/00 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| Analyte | Result | Result | Result | 1S/DUP | Result | Result | Result |
| cis-1,2-DCE | ND | 1.2 | 3.3 | 2.9/6.1 | 6.5 | 1.1 | 3.5 |
| PCE | 1.4 | 3.4 | 24 | 10/21 | 8.8 | 4.7 | 10 |
| TCE | ND | ND | 2.1 | 1.3/2.6 | 3.2 | 4.2 | 4.8 |
| VC | ND | 1.8 | ND | ND/ND | 3.6 | ND | 2.7 |

| SK-1D | 10/00 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| Analyte | Result | Result | 1D/DUP | Result | Result | Result | Result |
| cis-1,2-DCE | 2.2 | ND | ND/ND | ND | ND | ND | ND |
| PCE | 3.2 | ND | ND/ND | ND | ND | ND | ND |
| TCE | ND | ND | ND/ND | ND | 4.6 | 7.7 | 8.3 |

| HRI-03 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|
| Analyte | Result | Result | Result | Result | Result | Result |
| Benzene | 4.3 | ND | ND | ND | ND | 4.6 |
| $CCl_4$ | 7 | 6.4 | ND | 1.0 | 3.3 | 7.4 |
| Cfm | 2.6 | ND | ND | ND | 4.0 | 8.6 |
| cis-1,2-DCE | 13 | 21 | ND | 3.1 | 14 | 11 |
| PCE | 11 | ND | 8.2 | 21 | 3.7 | 5.8 |
| TCE | 95 | 120 | 26 | 31 | 75 | 56 |

| SK-12S | 2/05 |
|---|---|
| Analyte | Result |
| PCE | 350 |
| TCE | 23 |

| SK-12D | 2/05 |
|---|---|
| Analyte | Result |
| cis-1,2-DCE | 15 |
| PCE | 2.8 |
| TCE | 77 |

| SK-3D | 10/00 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| Analyte | Result | 3D/DUP | Result | Result | Result | Result | Result |
| TCA | 7 | ND/ND | ND | ND | ND | ND | ND |
| BromoDM | 2.2 | ND/ND | ND | ND | ND | ND | ND |
| CDBM | 2.7 | ND/ND | ND | ND | ND | ND | ND |
| Cfm | 2.5 | ND/ND | ND | ND | ND | ND | ND |
| cis-1,2-DCE | 18 | 12/13 | 11 | 7.1 | 14 | 20 | 16 |
| PCE | 66 | ND/2 | ND | ND | ND | ND | 2.4 |
| TCE | 42 | 90/94 | 69 | 54 | 89 | 92 | 88 |

| SK-2D | 10/00 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| Analyte | 2D/DUP | Result | Result | Result | Result | Result | Result |
| cis-1,2-DCE | 58/53 | 42 | 39 | 23 | 13 | 42 | 40 |
| PCE | 20/13 | ND | ND | ND | ND | ND | ND |
| TCE | 240/290 | 270 | 210 | 140 | 81 | 210 | 220 |

| SK-2S | 10/00 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| Analyte | Result | Result | Result | Result | Result | Result | Result |
| TCA | 6.3 | 150 | 38 | 300 | 180 | 34 | 30 |
| DCA | 2.3 | 35 | 17 | 47 | 16 | 13 | ND |
| DCE | 1.2 | ND | ND | ND | ND | ND | ND |
| 1,2,3-TCB | ND | 26 | ND | ND | ND | ND | ND |
| 1,2,4-TCB | ND | 22 | ND | ND | ND | ND | ND |
| 1,3-Dichbz | ND | 23 | ND | ND | ND | ND | ND |
| cis-1,2,-DCE | 38 | 730 | 260 | 1,500 | 200 | 270 | 280 |
| Napth | ND | 29 | ND | ND | ND | ND | ND |
| PCE | 31 | 600 | 180 | 1,100 | 370 | 290 | 360 |
| TCE | 19 | 390 | 100 | 570 | 180 | 150 | 160 |

| RSC-1 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|
| Analyte | Result | Result | Result | RSC1/DUP | Result | Result |
| cis-1,2-DCE | ND | ND | ND | 1.2/1.2 | 1.3 | 1.3 |
| TCE | 3.1 | 4.9 | 7.6 | 14/14 | 20 | 18 |

| SK-10S | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|
| Analyte | 10S/DUP | Result | Result | Result | Result |
| DCA | 11/14 | 7.3 | 7.4 | 7.5 | 5 |
| cis-1,2-DCE | 110/140 | 110 | 16 | 9.5 | 15 |
| PCE | 56/67 | 69 | 16 | 9.2 | 11 |
| TCE | 9.7/12 | 14 | 4.4 | 4.7 | 3.9 |
| VC | 51/59 | 28 | 5.3 | 12 | 19 |
| trans-1,2-DCE | ND | ND | 0.89 | 1.6 | 1.2 |

| SK-13S | 3/14/05 |
|---|---|
| Analyte | Result |
| DCA | 6.7 |
| PCE | 1.2 |
| TCA | 1.3 |

| SK-4D | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|
| Analyte | Result | Result | Result | Result | Result |
| TCA | 11 | 10 | 3.1 | ND | ND |
| DCA | ND | ND | 3.0 | ND | ND |
| DCE | ND | ND | 1.4 | ND | ND |
| cis-1,2-DCE | ND | ND | 22 | 11 | 16 |
| Cfm | ND | ND | 1.2 | ND | ND |
| Napth | ND | ND | 1.7 | ND | ND |
| PCE | 3.5 | 3.1 | 29 | 7.5 | 4.3 |
| TCE | 63 | 63 | 25 | 57 | 80 |
| VC | ND | ND | 4.3 | ND | ND |

| SK-3S | 10/00 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| Analyte | Result | Result | 3S/DUP | 3S/DUP | Result | 3S/DUP | Result |
| TCA | 1.7 | ND | ND/ND | ND/ND | ND | 1.0/ND | ND |
| 1,2,4-TMB | ND | 130 | 55/57 | 28/26 | ND | 33/31 | 52 |
| 1,3,5-TMB | ND | 35 | 13/14 | 10/9.6 | 28 | 9.4/8.4 | 12 |
| cis-1,2-DCE | 13 | ND | 6.7/7.1 | 4.2/4.2 | 13 | 4.5/4.3 | 6.3 |
| EB | ND | 67 | 33/32 | 35/34 | 100 | 15/14 | 18 |
| I-Benz | ND | ND | 2.1/ND | 1.9/ND | ND | ND/ND | ND |
| m & p Xylene | ND | 230 | 120/120 | 110/110 | 330 | 68/63 | 100 |
| n-pB | ND | 20 | 6.7/6.2 | 5.3/5.6 | 17 | 2.2/2.1 | 3.2 |
| Napth | ND | ND | 3.8/ND | ND/ND | 17 | 2.5/2.2 | 5.5 |
| o-Xylene | ND | 88 | 44/44 | 37/35 | 130 | 23/21 | 37 |
| PCE | 17 | 11 | 8/9.2 | 9.6/9.9 | 19 | 9.5/8.9 | 4.7 |
| Toluene | ND | 200 | 87/93 | 60/57 | 250 | 28/26 | 34 |
| TCE | 7.4 | 46 | 35/35 | 30/31 | 60 | 25/24 | 32 |

| SK-5D | 10/00 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| Analyte | Result | Result | Result | Result | Result | Result | Result |
| 1,2,4-TMB | 270 | ND | ND | ND | ND | ND | ND |
| 1,3,5-TMB | 74 | ND | ND | ND | ND | ND | ND |
| cis-1,2-DCE | 10 | 25 | 20 | 25 | 13 | 26 | 31 |
| EB | 26 | ND | ND | ND | ND | ND | ND |
| I-Benz | 7.7 | ND | ND | ND | ND | ND | ND |
| m & p Xylene | 76 | ND | ND | ND | ND | ND | ND |
| n-pB | 35 | ND | ND | ND | ND | ND | ND |
| Napth | 19 | ND | ND | ND | ND | ND | ND |
| o-Xylene | 19 | ND | ND | ND | ND | ND | ND |
| p-Isoprop | 6.4 | ND | ND | ND | ND | ND | ND |
| Toluene | 7.8 | ND | ND | ND | ND | ND | ND |
| TCE | 74 | 180 | 120 | 170 | 77 | 130 | 170 |

| SK-4S | 10/00 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| Analyte | Result | 4S/DUP | Result | Result | Result | Result | Result |
| TCA | 15 | 24/24 | 11 | ND | ND | 9.6 | 4.2 |
| DCA | ND | 5.9/5.7 | 7.8 | ND | ND | ND | ND |
| DCE | ND | 5.9/5.6 | 3.6 | ND | ND | ND | ND |
| cis-1,2-DCE | 23 | 17/18 | 45 | 97 | 19 | 42 | 39 |
| PCE | 160 | 110/98 | 76 | 360 | 39 | 170 | 55 |
| TCE | 33 | 18/17 | 12 | 22 | 3.0 | 16 | 12 |
| VC | ND | ND/ND | ND | ND | 1.1 | ND | 1.2 |

| SK-5S | 10/00 | 4/01 | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|---|---|
| Analyte | Result | Result | Result | Result | Result | Result | Result |
| TCA | ND | 5.9 | 24 | 6.5 | 9.0 | 31 | ND |
| DCA | ND | 2.4 | 10 | ND | 3.6 | ND | ND |
| DCE | ND | 1.2 | ND | ND | ND | ND | ND |
| 1,2,4-TMB | 120 | ND | ND | ND | ND | ND | ND |
| 1,3,5-TMB | 42 | ND | ND | ND | ND | ND | ND |
| $CCl_4$ | 6.3 | ND | ND | ND | ND | ND | ND |
| Cfm | 20 | ND | ND | ND | ND | ND | ND |
| cis-1,2-DCE | 8.2 | 37 | 120 | 81 | 54 | 21 | 16 |
| m & p Xylene | 120 | ND | ND | ND | ND | ND | ND |
| n-pB | 12 | ND | ND | ND | ND | ND | ND |
| Napth | 15 | ND | ND | ND | 2.4 | ND | ND |
| o-Xylene | 41 | ND | ND | ND | ND | ND | ND |
| PCE | 6 | 46 | 230 | 63 | 100 | 39 | 61 |
| Toluene | 54 | ND | ND | ND | ND | ND | ND |
| TCE | 63 | 22 | 90 | 32 | 50 | 13 | 15 |

| SK-11S | 11/01 | 8/02 | 10/03 | 10/04 | 2/05 |
|---|---|---|---|---|---|
| Analyte | Result | Result | Result | Result | Result |
| TCA | 8.3 | ND | 32 | 89 | 18 |
| DCA | 2 | ND | ND | 17 | ND |
| DCE | 1.4 | ND | ND | 11 | ND |
| cis-1,2-DCE | 32 | 6.9 | 360 | 500 | 95 |
| PCE | 3.9 | 2 | 56 | 48 | 19 |
| TCE | 16 | 15 | 64 | 60 | 52 |
| VC | ND | ND | ND | 14 | ND |

## LEGEND

- GROUNDWATER MONITORING WELL (2 INCH Ø )
- GEOPROBE MONITORING WELL (1 INCH Ø )
- SURFACE WATER SAMPLE LOCATION
- GEOPROBE WATER SAMPLE LOCATION
- RAILROAD
- FENCE
- NOT SURVEYED
- FACILITY BOUNDARY (NOT SURVEYED)
- GROUNDWATER ELEVATION CONTOUR (FT. M.S.L.) - MARCH 14, 2005
- 1301.88 GROUNDWATER ELEVATION (FT. M.S.L.) MARCH 14, 2005 EXCEPT FOR SK-B68 AND WNC-32D, WHICH WERE MEASURED ON MARCH 17, 2005
- AOC LOCATIONS
- SWMU LOCATIONS
- Other areas (OA) included in the RFI (based on the historical data review; areas that do not overlap SWMUs and AOCs are numbered OA #1 to OA #6)

TCA.....1,1,1-Trichloroethane
DCA.....1,1-Dichloroethane
DCE.....1,1-Dichloroethene
1,1,2,2-PCA.....1,1,2,2-Tetrachloroethane
1,2,3-TCB.....1,2,3-Trichlorobenzene
1,2,4-TCB.....1,2,4-Trichlorobenzene
1,2,4-TMB.....1,2,4-Trimethylbenzene
1,3,5-TMB.....1,3,5-Trimethylbenzene
Benzene.....Benzene
I-Benz..... Isopropylbenzene
BromoDM.....Bromodichloromethane
$CCl_4$.....Carbon Tetrachloride
CDBM..... Chlorodibromomethane
Cfm.....Chloroform
cis-1,2-DCE.....cis-1,2-Dichloroethene
ND.....Non-detect
EB..... Ethyl Benzene
m & p Xylenes..... m & p Xylenes
MC.....Methylene Chloride
n-bB.....n-Butylbenzene
n-pB.....n-Propylbenzene
Napth.....Naphthalene
o-Xylene.....o-Xylene
p-Isoprop..... p-Isopropyltoluene
sec-bB..... sec-Butylbenzene
PCE.....Tetrachloroethene
Toluene.....Toluene
trans-1,2-DCE..... trans-1,2-Dichloroethene
TCE.....Trichloroethene
VC.....Vinyl Chloride
VOCs.....Volatile Organic Compounds

NOTE: RESULTS IN $\mu$ g/L (PARTS PER BILLION)

SOURCE: CARLSON SURVEYING, APRIL 2, 2002

| | BY | DATE |
|---|---|---|
| DRAWN | WRB | 4/1/05 |
| CHECKED | | |
| APPROVED | | |
| APPROVED | | |
| APPROVED | | |

CAMERON-COLE

PLATE 1

GROUNDWATER ANALYTICAL RESULTS FOR VOCs
MONITORING WELL WATER SAMPLES (OCT. 2000 - MARCH 2005)
CLEAN HARBORS KANSAS, LLC

SCALE: 1" = 60'

DWG. NO.: 1808-23

# ATTACHMENT 1

Soil Boring Logs and Monitoring Well Construction Logs

CAMERON-COLE

# SOIL BORING LOG AND WELL COMPLETION DATA

| | |
|---|---|
| BORING NO.: | B-31V |
| CLIENT/PROJECT: | CLEAN HARBORS WICHITA, KANSAS |
| DRILLER: | EPS/SEAN LEARY |
| DRILLING RIG TYPE: | N/A |
| DRILL METHOD: | GEOPROBE |
| DATE STARTED: | 1/31/05 |
| DATE COMPLETED: | 1/31/05 |
| PROJECT NUMBER: | 1808 |
| TOTAL DEPTH (FT.): | 8 |
| WATER DEPTH (FT.): | -- |
| LOGGED BY: | JULIE FLEETWOOD |

| WELL COMPLETION | DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | SAMPLE NAME |
|---|---|---|---|---|---|---|
| | 0 | 0-4' No Recovery | | | | |
| | | 4.0' - 5.0' Gravel, fill material<br>Perched water in gravel, collected sample in clay layer below gravel | | | | |
| | 5 | 5.0-8.0' Clayey silt, very dark brown (10YR2/2), silt (65%), clay (35%), moist from perched zone above | OH | 32.1 | 80% | B-31V-6' |
| | 10 | | | | | |
| | 15 | | | | | |
| | 20 | | | | | |
| | 25 | | | | | |

1808-SK-B-31V

CAMERON-COLE

# SOIL BORING LOG AND WELL COMPLETION DATA

BORING NO.: **B-70V**

| | |
|---|---|
| CLIENT/PROJECT: | CLEAN HARBORS WICHITA, KANSAS |
| DRILLER: | EPS/SEAN LEARY |
| DRILLING RIG TYPE: | N/A |
| DRILL METHOD: | GEOPROBE |
| DATE STARTED: | 1/31/05 |
| DATE COMPLETED: | 1/31/05 |
| PROJECT NUMBER: | 1808 |
| TOTAL DEPTH (FT.): | 16 |
| WATER DEPTH (FT.): | ~16 |
| LOGGED BY: | JULIE FLEETWOOD |

| WELL COMPLETION | DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | SAMPLE NAME |
|---|---|---|---|---|---|---|
| | 0 | 0-6" Ground cover, grass | Fill | | | |
| | | 6"-2.0' Sandy silt, brown (10YR5/3), sand (30%), silt (70%), moist, no staining, no odor | SP | | | |
| | | 2.0' - 4.0' Clayey silt, very dark brown (10YR2/2), silt (60%), clay (35%), medium stiffness, dry, no staining, no odor | OH | 0 | 50% | |
| | 5 | 4.0-11.0' Silty sand, brown (10YR5/3), sand (65%), silt (35%), dry, no staining, no odor | SP | 0 | 40% | B-70V-8' |
| | 10 | 11.0-15.0' Clayey silt, dark brown (10YR3/3), silt (70%), clay (30%), stiff, moist, no staining, no odor | OH | 0 | 70% | |
| | 15 | 15.0-16.0' Sand, brown (10YR5/3), fine sands (70%), medium (30%), moist at bottom of 16' no staining, no odor | SP | 1.5 | 100% | B-70V-16' |
| | 20 | | | | | |
| | 25 | | | | | |

1808-SK-B-70V

CAMERON-COLE

# SOIL BORING LOG AND WELL COMPLETION DATA

| | | |
|---|---|---|
| CLIENT/PROJECT: CLEAN HARBORS WICHITA, KANSAS | DRILLER: EPS/SEAN LEARY | BORING NO.: **B-86V** |
| DRILLING RIG TYPE: N/A | DRILL METHOD: GEOPROBE | |
| DATE STARTED: 1/31/05 | DATE COMPLETED: 1/31/05 | PROJECT NUMBER: 1808 |
| TOTAL DEPTH (FT.): 16 | WATER DEPTH (FT.): 13 | LOGGED BY: JULIE FLEETWOOD |

| WELL COMPLETION | DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | SAMPLE NAME |
|---|---|---|---|---|---|---|
| | 0 | 0-1.0' Gravel | Fill | | | |
| | | 1.0'-6.0' Silty clay, very dark brown (10YR2/2), silt (45%), clay (55%), stiff, moist, no staining, no odor | OH | 6.2 | 80% | B-86V-3.5' |
| | 5 | | | | | |
| | | 6.0' - 10.0' Clayey silt, light brown (7.5YR4/4), silt (80%), clay (20%), stiff dry, no staining, no odor | OH | 0 | 100% | |
| | 10 | 10.0-12.0' Clay with silty sand, brownish gray (10YR6/2), sand (15%), silt (15%), clay (70%), moist, no staining, no odor | OH | 0 | 100% | B-86V-12' |
| | | 12.0-13.0' Sand, brownish yellow (10YR4/8), fine sands (75%), medium (25%), wet @ bottom of 13', no staining, slight odor | SP | | | |
| | | 13.0-16.0' Clay with silty sand, brownish gray, (10YR4/8), silt (5%), sand (10%), clay (85%), no staining, no odor | OH | 8.2 | 100% | |
| | 15 | | | | | |
| | 20 | | | | | |
| | 25 | | | | | |

1808-SK-B-86V

CAMERON-COLE

# SOIL BORING LOG AND WELL COMPLETION DATA

BORING NO.: **B-96V**

| | |
|---|---|
| CLIENT/PROJECT: | CLEAN HARBORS WICHITA, KANSAS |
| DRILLER: | EPS/SEAN LEARY |
| DRILLING RIG TYPE: | N/A |
| DRILL METHOD: | GEOPROBE |
| DATE STARTED: | 1/31/05 |
| DATE COMPLETED: | 1/31/05 |
| PROJECT NUMBER: | 1808 |
| TOTAL DEPTH (FT.): | 14 |
| WATER DEPTH (FT.): | ~15 |
| LOGGED BY: | JULIE FLEETWOOD |

| WELL COMPLETION | DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | SAMPLE NAME |
|---|---|---|---|---|---|---|
| | 0 | 0-1' Concrete, gravel | Fill | | | |
| | | 1-4.0' Silty clay, black (10YR2/1), silt (35%), clay (65%), stiff, dry, no staining, no odor | OH | 0 | 65% | B-96V-4' |
| | 5 | 4.0' - 9.0' Clayey silt, very dark brown (10YR2/2), silt (60%), clay (40%), stiff, dry, no staining, no odor | OH | 0 | 100% | |
| | 10 | 9.0-14.0' Clayey silt with sand, brown (10YR4/3), clay (25%), silt (55%), sand (20%), moist at bottom of 14', sand fine to medium starting at bottom of sample, no staining, no odor | OH | 0 | 100% | B-96V-14' |
| | 15 | | | | | |
| | 20 | | | | | |
| | 25 | | | | | |

1808-SK-B-96V

CAMERON-COLE

# SOIL BORING LOG AND WELL COMPLETION DATA

| | | |
|---|---|---|
| CLIENT/PROJECT: CLEAN HARBORS WICHITA, KANSAS | DRILLER: EPS/SEAN LEARY | BORING NO.: **B-100V** |
| DRILLING RIG TYPE: N/A | | DRILL METHOD: GEOPROBE |
| DATE STARTED: 1/31/05 | DATE COMPLETED: 1/31/05 | PROJECT NUMBER: 1808 |
| TOTAL DEPTH (FT.): 15 | WATER DEPTH (FT.): 15 | LOGGED BY: JULIE FLEETWOOD |

| WELL COMPLETION | DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | SAMPLE NAME |
|---|---|---|---|---|---|---|
| | 0 | 0-1' Gravel | Fill | | | |
| | | 1.0-3.0' Clayey silt, black (10YR2/1), silt (35%), clay (65%), stiff, dry, no staining, no odor | OH | | | |
| | | 3.0' - 10.0' Clayey silt, very dark brown (10YR2/2), silt (65%), clay (35%), dry, no staining, no odor | | 0 | 70% | B-100V-4' |
| | 5 | | OH | 0 | 100% | |
| | 10 | 10.0-14.0' Silty sand, brown (10YR5/3), sand (65%), silt (35%), moist, no staining, no odor | SP | 0 | 100% | |
| | 15 | 14.0-15.0' Sand, brown (10YR5/3), fine sands (85%), medium (15%), moist at bottom of sample, no staining, no odor | SP | 6.0 | 100% | B-100V-14' |
| | 20 | | | | | |
| | 25 | | | | | |

1808-SK-B-100V

CAMERON-COLE

# SOIL BORING LOG AND WELL COMPLETION DATA

BORING NO.: **B-103V**

| | |
|---|---|
| CLIENT/PROJECT: | CLEAN HARBORS WICHITA, KANSAS |
| DRILLER: | EPS/SEAN LEARY |
| DRILLING RIG TYPE: | N/A |
| DRILL METHOD: | GEOPROBE |
| DATE STARTED: | 1/31/05 |
| DATE COMPLETED: | 1/31/05 |
| PROJECT NUMBER: | 1808 |
| TOTAL DEPTH (FT.): | 16 |
| WATER DEPTH (FT.): | ~16 |
| LOGGED BY: | JULIE FLEETWOOD |

| WELL COMPLETION | DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | SAMPLE NAME |
|---|---|---|---|---|---|---|
| | 0 | 0-1' Gravel | Fill | | | |
| | | 1.0-4.5' Silty clay, black (10YR2/1), silt (25%), clay (75%), stiff, moist, no staining, no odor | OH | 0 | 75% | |
| | 5 | 4.5' - 5.0' Sand lense, brown (10YR6/3), coarse, wet | SP | | | |
| | | 5.0-12.0' Clayey silt, very dark brown (10YR2/2), silt (55%), clay (45%), stiff, dry, no staining, no odor | OH | 0 | 100% | B-103V-8' |
| | 10 | 12.0-15.0' Clayey silt with sand, brown (7.5YR5/3), fine sand (15%), silt (55%), clay (30%), moist, no staining, no odor | OH | 0 | 85% | |
| | 15 | 15.0-16.0' Sand, pale brown (10YR6/3), fine sand (100%), moist at bottom of 16', no staining, no odor | SP | 0 | 100% | B-103V-16' |
| | 20 | | | | | |
| | 25 | | | | | |

1808-SK-B-103V

CAMERON-COLE

# SOIL BORING LOG AND WELL COMPLETION DATA

BORING NO.: **B-106V**

| | |
|---|---|
| CLIENT/PROJECT: | CLEAN HARBORS WICHITA, KANSAS |
| DRILLER: | EPS/SEAN LEARY |
| DRILLING RIG TYPE: | N/A |
| DRILL METHOD: | GEOPROBE |
| DATE STARTED: | 1/31/05 |
| DATE COMPLETED: | 1/31/05 |
| PROJECT NUMBER: | 1808 |
| TOTAL DEPTH (FT.): | 16 |
| WATER DEPTH (FT.): | 16 |
| LOGGED BY: | JULIE FLEETWOOD |

| WELL COMPLETION | DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | SAMPLE NAME |
|---|---|---|---|---|---|---|
| | 0 | 0-1' Gravel | Fill | | | |
| | 5 | 1-6.0' Silty clay, very dark brown (10YR2/2), silt (40%), clay (60%), stiff, dry, no staining, no odor | OH | 6.8 | 100% | B-106V-4' |
| | 10 | 6.0' - 10.0' Clayey silt, light brown (7.5YR4/4), silt (80%), clay (20%), stiff, dry, no staining, no odor | OH | 0 | 100% | |
| | | 10.0-13.0' Silty sand, brownish yellow (10YR6/8), sand (70%), silt (30%), moist, no staining, no odor | SP | 0 | 100% | |
| | | 13.0-14.0' Silty Clay, light brownish gray (10YR6/2), silt (15%), clay (85%), moist, no staining, no odor | OH | | | B-106V-13' |
| | 15 | 14-16' Sand, brownish yellow (10YR4/8), fine sands (85%), medium sands (15%), wet, no staining, no odor | SP | 0 | 100% | |
| | 20 | | | | | |
| | 25 | | | | | |

1808-SK-B-106V

CAMERON-COLE

# SOIL BORING LOG AND WELL COMPLETION DATA

BORING NO.: **B-110**

| | |
|---|---|
| CLIENT/PROJECT: | CLEAN HARBORS WICHITA, KANSAS |
| DRILLER: | EPS/SEAN LEARY |
| DRILLING RIG TYPE: | N/A |
| DRILL METHOD: | GEOPROBE |
| DATE STARTED: | 1/31/05 |
| DATE COMPLETED: | 1/31/05 |
| PROJECT NUMBER: | 1808 |
| TOTAL DEPTH (FT.): | 16 |
| WATER DEPTH (FT.): | 15 |
| LOGGED BY: | JULIE FLEETWOOD |

| WELL COMPLETION | DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | SAMPLE NAME |
|---|---|---|---|---|---|---|
| | 0 | 0-1' Gravel | Fill | 0 | 85% | B-110-6" |
| | | 1-5.0' Silty clay, very dark brown (10YR2/2), silt (40%), clay (60%), stiff, dry, no staining, no odor | OH | 0 | 100% | B-110-3' |
| | 5 | 5.0' - 10.0' Clayey silt, light brown (7.5YR6/4), silt (80%), clay (20%), stiff, dry, no staining, no odor | OH | 0 | 100% | |
| | 10 | 10.0-13.0' Silty sand, brownish yellow (10YR6/8), fine sand (75%), silt (25%), moist, no staining, no odor | SP | 0 | 100% | B-110-13' |
| | | 14.0-15.0' Clay with silt, light brownish gray (10YR6/2), silt (15%), clay (85%), moist, no staining, no odor | OH | | | |
| | 15 | 15-16' Sand, brownish yellow (10YR6/8), fine sands (85%), medium sands (15%), wet @15', no staining, no odor | SP | 0 | 100% | |
| | 20 | | | | | |
| | 25 | | | | | |

1808-SK-B-110

CAMERON-COLE

# SOIL BORING LOG AND WELL COMPLETION DATA

BORING NO.: **B-111**

| | |
|---|---|
| CLIENT/PROJECT: | CLEAN HARBORS WICHITA, KANSAS |
| DRILLER: | EPS/SEAN LEARY |
| DRILLING RIG TYPE: | N/A |
| DRILL METHOD: | GEOPROBE |
| DATE STARTED: | 1/31/05 |
| DATE COMPLETED: | 1/31/05 |
| PROJECT NUMBER: | 1808 |
| TOTAL DEPTH (FT.): | 16 |
| WATER DEPTH (FT.): | 16 |
| LOGGED BY: | JULIE FLEETWOOD |

| WELL COMPLETION | DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | SAMPLE NAME |
|---|---|---|---|---|---|---|
| | 0 | 0-1' Gravel | Fill | 0 | 85% | B-111-6" |
| | | 1-6.0' Silty clay, very dark brown (10YR2/2), silt (40%), clay (60%), stiff, dry, no staining, no odor | OH | 0 | 100% | B-111-3' |
| | 5 | | | | | |
| | | 6.0' - 10.0' Clayey silt, light brown (7.5YR4/4), silt (80%), clay (20%), stiff, dry, no staining, no odor | OH | 0 | 100% | |
| | 10 | 10.0-14.0' Silty sand, brownish yellow (10YR6/8), sand (70%), silt (30%), moist, no staining, no odor | SP | 0 | 100% | |
| | | 14.0-15.0' Clay with silt, light brownish gray (10YR6/2), silt (15%), clay (85%), moist, no staining, no odor | OH | | | |
| | 15 | 15-16' Sand, brownish yellow (10YR4/8), fine sands (70%), medium sands (30%), wet @16', no staining, no odor | SP | 0 | 100% | B-111-15' |
| | 20 | | | | | |
| | 25 | | | | | |

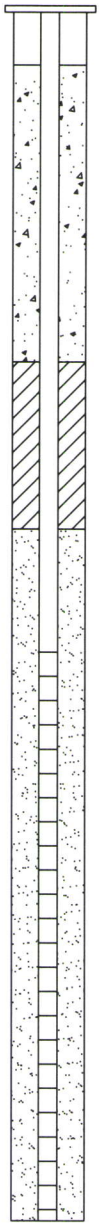
1808-SK-B-111

CAMERON-COLE

# SOIL BORING LOG AND WELL COMPLETION DATA

BORING NO.: **SK-12S**

| | |
|---|---|
| CLIENT/PROJECT: | CLEAN HARBORS WICHITA, KANSAS |
| DRILLER: | GSI/COREY LEWIS |
| DRILLING RIG TYPE: | CME-75 |
| DRILL METHOD: | HOLLOW STEM AUGER |
| DATE STARTED: | 1/31/05 |
| DATE COMPLETED: | 1/31/05 |
| PROJECT NUMBER: | 1808 |
| TOTAL DEPTH (FT.): | 21 |
| WATER DEPTH (FT.): | 15 |
| LOGGED BY: | ANDREW SCHMIDT |



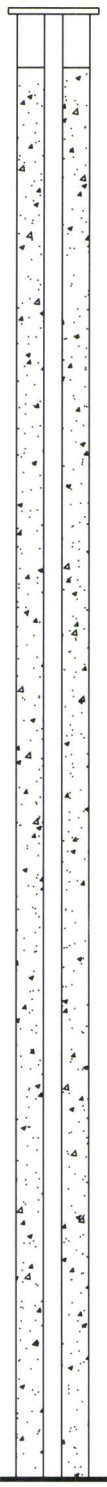
| WELL COMPLETION | DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | BLOW COUNT |
|---|---|---|---|---|---|---|
| | 0 | 0-11' Silty-sandy clay, medium brown, medium plasticity, no stain, no odor. | CL | - | 60% | |
| | 5 | | | 1.7 | 60% | |
| | | | | 4.3 | 50% | 3,4,6 |
| | 10 | | | 1.5 | 50% | 3,3,5 |
| | | 11-14.5' Sand, medium-grained, light brown, poorly graded, no stain or odor. | SP | 1.3 | 50% | 3,4,5 |
| | 15 | 14.5-15' Six-inch section of orange sand. No odor | SP | | | |
| | | 15-20' Sand, medium-grained, light brown, poorly graded, no stain or odor. Gravel from 18.0-18.5'. | SP | 2.3 | 60% | 2,3,3 |
| | | | | 3.5 | 100% | 5,6,7 |
| | 20 | 20-21' Coarse sand, light brown, stained, no odor, poorly sorted. | SP | 1.4 | 40% | 5,5,5 |
| | | T.D. 21 FT. | | | | |
| | 25 | | | | | |

1808-SK-12S

CAMERON-COLE

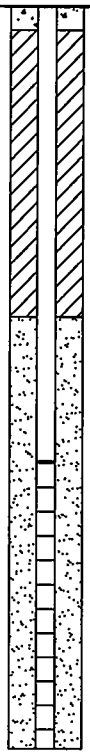
# SOIL BORING LOG AND WELL COMPLETION DATA

| | | |
|---|---|---|
| CLIENT/PROJECT: CLEAN HARBORS WICHITA, KANSAS | DRILLER: GSI/COREY LEWIS | BORING NO.: **SK-12D** |
| DRILLING RIG TYPE: CME-75 | | DRILL METHOD: HOLLOW STEM AUGER |
| DATE STARTED: 1/31/05 | DATE COMPLETED: 1/31/05 | PROJECT NUMBER: 1808 |
| TOTAL DEPTH (FT.): 37.5 | WATER DEPTH (FT.): 15 | LOGGED BY: ANDREW SCHMIDT |



| DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | BLOW COUNT |
|---|---|---|---|---|---|
| 0 | 0-11' Silty-sandy clay, medium brown, medium plasticity, no stain or odor. | OH | - | 60% | |
| 5 | | | 1.7 | 60% | |
| | | | 4.3 | 50% | 3,4,6 |
| 10 | | | 1.5 | 50% | 3,3,5 |
| | 11-14.5' Sand, medium-grained, light brown, poorly graded, no stain or odor. | SP | 1.3 | 50% | 2,3,3 |
| | 14.5-15' Six-inch section of orange sand. No odor | SP | | | |
| 15 | 15-20' Sand, medium-grained, light brown, saturated, poorly graded, no stain or odor. Gravel from 18.0-18.5'. | SP | 2.3 | 60% | 4,5,6 |
| | | | 3.5 | 100% | 5,6,7 |
| 20 | 20-21' Sand, coarse, light brown, stained, no odor, poorly sorted, saturated. | SP | 1.4 | 40% | 5,5,5 |
| | 21-25' Sand, light brown, medium-grained, poorly graded, saturated, no odor or staining. | SP | 1.3 | 100% | 3,4,4 |
| 25 | | | | | |

1808-SK-12D

| WELL COMPLETION | DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | BLOW COUNT |
|---|---|---|---|---|---|---|
|  | 25 | SK-12D Log Cont'd<br>25-29.5' Silty clay, very tight and highly plastic, black staining at 27', no odor. | OH | 2.3 | 80% | 3,3,3 |
| | | | | - | 90% | 12,21,15 |
| | 30 | 29.5-32.5' Sand, coarse, light brown, poorly graded, saturated, no stain or odor. | SP | 3.3 | 75% | 4,7,6 |
| | | 32.5-37.5' Sand, fine to medium-grained, light brown sands, grading to coarse, no stain or odor. | SW | 2.0 | 10% | 4,7,6 |
| | 35 | | | - | 50% | 7,9,9 |
| | | 37.5' Weathered shale. | | | | |
| | | T.D. 37.5 FT. | | | | |
| | 40 | | | | | |
| | 45 | | | | | |
| | 50 | | | | | |

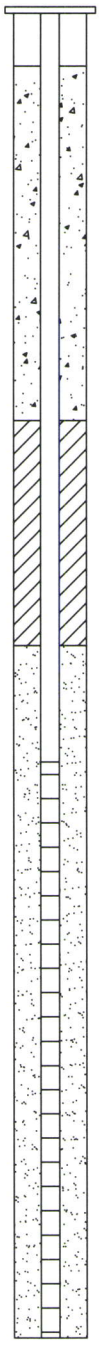
1808-SK-9Db

CAMERON-COLE

# SOIL BORING LOG AND WELL COMPLETION DATA

BORING NO.: **SK-13S**

| | |
|---|---|
| CLIENT/PROJECT: | CLEAN HARBORS WICHITA, KANSAS |
| DRILLER: | GSI/COREY LEWIS |
| DRILLING RIG TYPE: | CME-75 |
| DRILL METHOD: | HOLLOW STEM AUGER |
| DATE STARTED: | 3/11/05 |
| DATE COMPLETED: | 3/11/05 |
| PROJECT NUMBER: | 1808 |
| TOTAL DEPTH (FT.): | 23 |
| WATER DEPTH (FT.): | 15.5 |
| LOGGED BY: | J. WILSON |



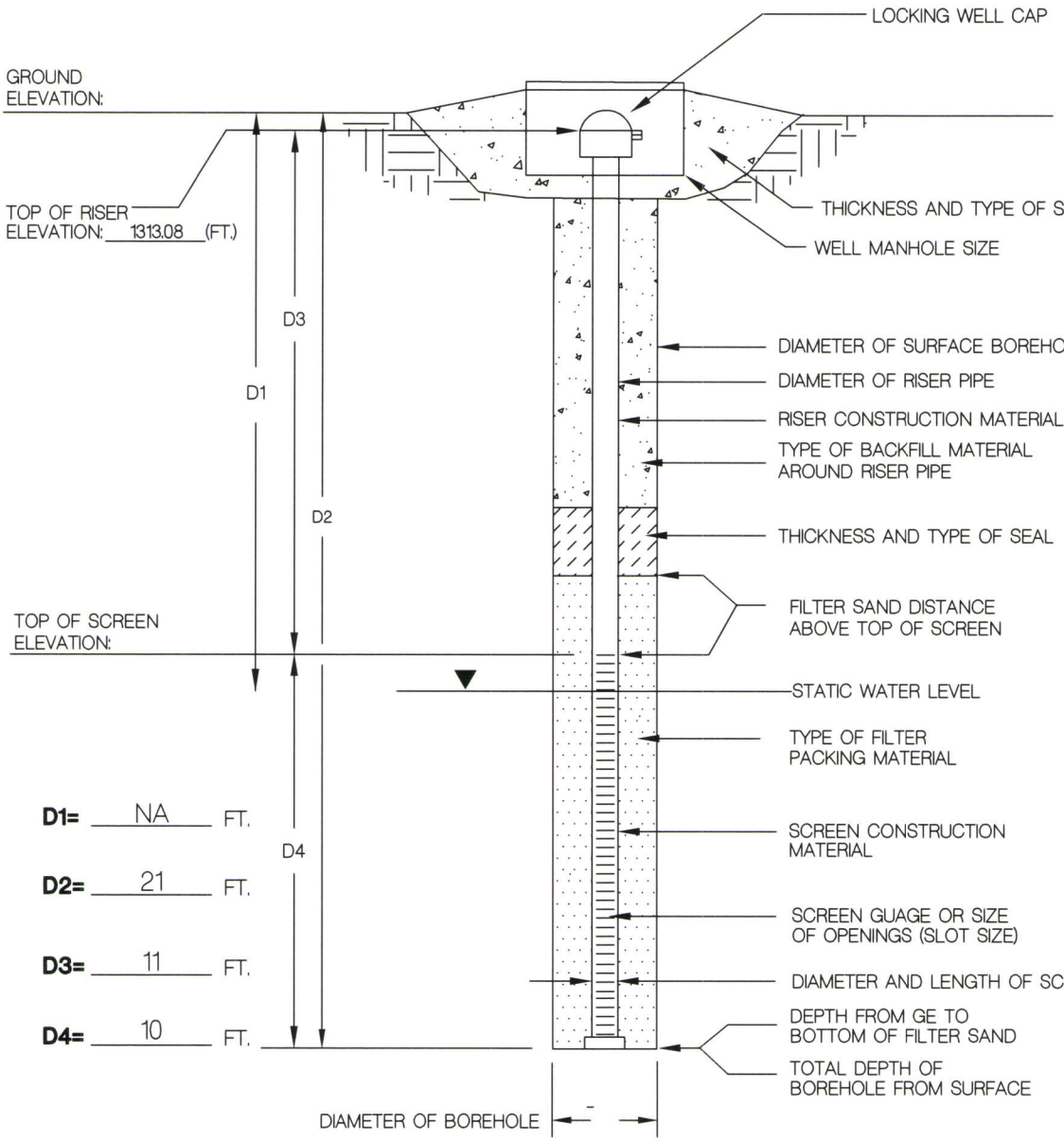
| DEPTH FEET | DESCRIPTION | USCS CODE GRAPHIC | OVM PPM | PERCENT RECOVERY | BLOW COUNT |
|---|---|---|---|---|---|
| 0 | 0.0-1.0 Silty Clay, dark brown, clay (80%), silt (20%), dry no odor, no stain | | | | |
| | 1.0-4.5' Clay with Silt, dark brown, clay (80%), silt (20%), low plasticity, dry, no stain, no odor | CL | 0.0<br>0.2 | 100% | |
| 5 | 4.5-6.5' Silty Sand, fine, light brown, dry, loose | SM | 0.0 | | |
| | 6.5-10' Silty Clay, light yellowish brown, little fine sand, clay (60%), silt (30%), fine sand (10%), medium plasticity, dry, no stain, no odor | CL | 0.0 | 100% | |
| 10 | 10-11.5' Clay, mottled dark and light brown, medium plasticity, tight, dry, no stain, no odor | | 0.0 | 100% | |
| | 11.5-12' Sand with little silt, poorly graded, light yellowish brown, loose, dry, no stain, no odor | SP | 0.0 | 80% | |
| | 12-15' Silty Clay, mottled grey-orange, silty sand stringers throughout, dry, no stain, no odor | CL | 0.0 | 80% | |
| 15 | 15-17.5' Sand, poorly graded, light yellowish-brown, loose, wet at 15.5', no stain, no odor | SP | | 80%<br>80% | |
| | 17.5-21.5' Coarse Sand with Gravel, well graded, yellowish-brown, rounded to sub-rounded, wet, no stain, no odor | SW | | 80% | |
| 20 | 21.5-23' Sand, poorly graded, light yellowish-brown, wet, no stain, no odor | SP | | 60% | |
| | T.D. 23 FT. | | | | |
| 25 | | | | | |

1808-SK-13S

**MONITORING WELL CONSTRUCTION AND INSTALLATION DIAGRAM**

**PROJECT NAME:** WICHITA

**MONITORING WELL NO.** SK-12S




| | |
|---|---|
| THICKNESS AND TYPE OF SEAL | 6"-CONCRETE |
| WELL MANHOLE SIZE | 8" |
| DIAMETER OF SURFACE BOREHOLE | - |
| DIAMETER OF RISER PIPE | 2" |
| RISER CONSTRUCTION MATERIAL | PVC |
| TYPE OF BACKFILL MATERIAL AROUND RISER PIPE | CEMENT GROUT |
| THICKNESS AND TYPE OF SEAL | 3'-BENTONITE |
| FILTER SAND DISTANCE ABOVE TOP OF SCREEN | 2' |
| STATIC WATER LEVEL | NA |
| TYPE OF FILTER PACKING MATERIAL | SILICA SAND |
| SCREEN CONSTRUCTION MATERIAL | SCH 40 PVC |
| SCREEN GUAGE OR SIZE OF OPENINGS (SLOT SIZE) | .010 |
| DIAMETER AND LENGTH OF SCREEN | 2" / 10' |
| DEPTH FROM GE TO BOTTOM OF FILTER SAND | - |
| TOTAL DEPTH OF BOREHOLE FROM SURFACE | 21' |

**D1=** NA FT.

**D2=** 21 FT.

**D3=** 11 FT.

**D4=** 10 FT.

NOT TO SCALE

CAMERON-COLE

MONITORING WELL INSTALLATION INFORMATION

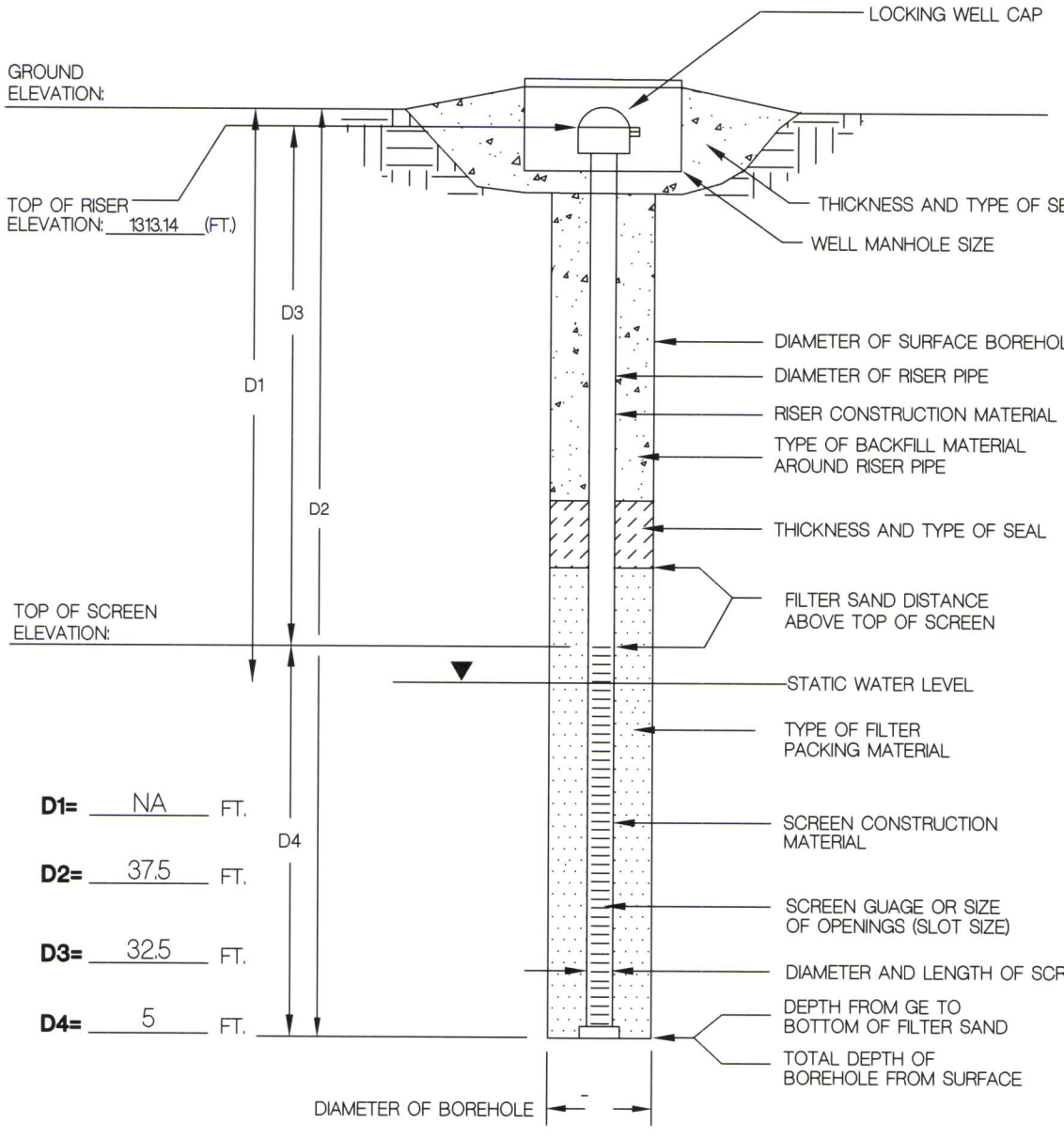
| | | |
|---|---|---|
| DRILLING CONTRACTOR: GEOTECH | | DRILLER: COREY LEWIS |
| DRILLING RIG TYPE: CME-75 | | DRILL METHOD: HSA |
| DATE STARTED: 1/31/05 | DATE COMPLETED: 2/1/05 | FORM COMPLETED BY: A. SCHMIDT |

1808-19

**MONITORING WELL CONSTRUCTION AND INSTALLATION DIAGRAM**

**PROJECT NAME:** WICHITA

**MONITORING WELL NO.** SK-12D




| | |
|---|---|
| THICKNESS AND TYPE OF SEAL | 6"-CONCRETE |
| WELL MANHOLE SIZE | 8" |
| DIAMETER OF SURFACE BOREHOLE | - |
| DIAMETER OF RISER PIPE | 2" |
| RISER CONSTRUCTION MATERIAL | PVC |
| TYPE OF BACKFILL MATERIAL AROUND RISER PIPE | CEMENT GROUT |
| THICKNESS AND TYPE OF SEAL | 5'-BENTONITE |
| FILTER SAND DISTANCE ABOVE TOP OF SCREEN | 2' |
| STATIC WATER LEVEL | NA |
| TYPE OF FILTER PACKING MATERIAL | SILICA SAND |
| SCREEN CONSTRUCTION MATERIAL | SCH 40 PVC |
| SCREEN GUAGE OR SIZE OF OPENINGS (SLOT SIZE) | .010 |
| DIAMETER AND LENGTH OF SCREEN | 2" / 5' |
| DEPTH FROM GE TO BOTTOM OF FILTER SAND | - |
| TOTAL DEPTH OF BOREHOLE FROM SURFACE | 37.5' |

**D1=** NA FT.

**D2=** 37.5 FT.

**D3=** 32.5 FT.

**D4=** 5 FT.

NOT TO SCALE

CAMERON-COLE

MONITORING WELL INSTALLATION INFORMATION

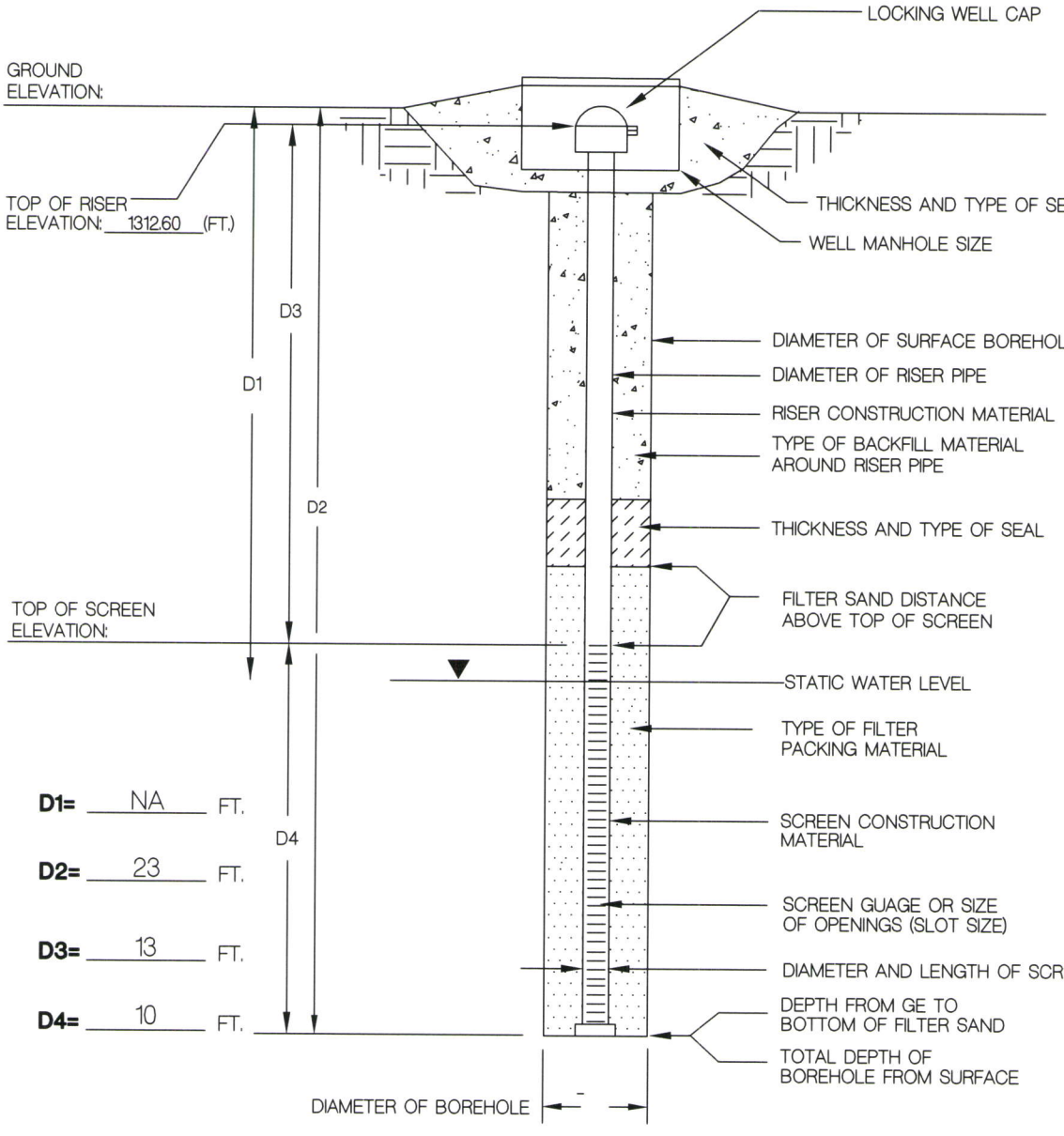
| | | |
|---|---|---|
| DRILLING CONTRACTOR: GEOTECH | | DRILLER: COREY LEWIS |
| DRILLING RIG TYPE: CME-75 | | DRILL METHOD: HSA |
| DATE STARTED: 1/31/05 | DATE COMPLETED: 2/1/05 | FORM COMPLETED BY: A. SCHMIDT |

1808-2

**MONITORING WELL CONSTRUCTION AND INSTALLATION DIAGRAM**

**PROJECT NAME:** WICHITA

**MONITORING WELL NO.** SK-13S




| | |
|---|---|
| THICKNESS AND TYPE OF SEAL | 6"-CONCRETE |
| WELL MANHOLE SIZE | 8" |
| DIAMETER OF SURFACE BOREHOLE | - |
| DIAMETER OF RISER PIPE | 2" |
| RISER CONSTRUCTION MATERIAL | PVC |
| TYPE OF BACKFILL MATERIAL AROUND RISER PIPE | CEMENT GROUT |
| THICKNESS AND TYPE OF SEAL | 3'-BENTONITE |
| FILTER SAND DISTANCE ABOVE TOP OF SCREEN | 2' |
| STATIC WATER LEVEL | NA |
| TYPE OF FILTER PACKING MATERIAL | SILICA SAND |
| SCREEN CONSTRUCTION MATERIAL | SCH 40 PVC |
| SCREEN GUAGE OR SIZE OF OPENINGS (SLOT SIZE) | .010 |
| DIAMETER AND LENGTH OF SCREEN | 2" / 10' |
| DEPTH FROM GE TO BOTTOM OF FILTER SAND | - |
| TOTAL DEPTH OF BOREHOLE FROM SURFACE | 23' |

**D1=** NA FT.

**D2=** 23 FT.

**D3=** 13 FT.

**D4=** 10 FT.

NOT TO SCALE

CAMERON-COLE

MONITORING WELL INSTALLATION INFORMATION

| | | |
|---|---|---|
| DRILLING CONTRACTOR: GEOTECH | | DRILLER: COREY LEWIS |
| DRILLING RIG TYPE: CME-75 | | DRILL METHOD: HSA |
| DATE STARTED: 3/11/05 | DATE COMPLETED: 3/11/05 | FORM COMPLETED BY: J. WILSON |

1808-3

# ATTACHMENT 2

Laboratory Report for Soil Samples

SEVERN TRENT STL

**STL Denver**
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

February 21, 2005

Ms. Janette Wilson
Cameron-Cole, LLC
5777 Central Avenue
Suite 100
Boulder, CO 80301

Dear Ms. Wilson:

Enclosed please find the analytical reports associated with the Clean Harbors Wichita, KS February 2005 Sampling Event.

The associated STL Denver project numbers are as follows:

D5B010149
D5B020351
D5B040358

Should you have any questions or require additional information, please don't hesitate to contact me at (303) 736-0136

Sincerely,

SEVERN TRENT LABORATORIES, INC.

Cheryl Sklenar
Project Manager

Enclosures

SEVERN TRENT STL

# Invoice

STL Denver
4955 Yarrow Street
Arvada, CO 80002
(303) 421-6611
(303) 431-7171

| Number | Date |
|---|---|
| 28072416 | 21 FEB 05 |
| STL Project Number: D5B010149 | Customer Number: 00408171 |
| Terms: NET 30 DAYS | |

REMIT TO:

Severn Trent Laboratories, Inc.
P.O. Box 7777 W4305
Philadelphia, PA 19175-4305

Customer Contact
**SAMPLE RECEIVING DATE :** 2/01/05
**REPORT DATE :** 2/21/05
Janette Wilson

Bill To:

John Arbuthnot
Clean Harbors Baton Rouge
13351 Scenic Highway
Baton Rouge, LA 70807

Cameron-Cole LLC
5777 Central Avenue
Suite 100
Boulder, CO 80301

| Line No. | Qty. | Matrix Code | Analysis Description | Unit Price | Extended Price |
|---|---|---|---|---|---|
| | 19 | SOLID | SOLID, 8260B, Volatile Organics (encores) | 121.00 | 2,299.00 |
| | 44 | WATER | WATER, Volatile Organics, 8260B | 75.00 | 3,300.00 |

Clean Harbors Wichita - 02/2005 Soil & GW Sampling
PO# 0000422204
Note: This invoice is associated with STL Denver projects D5B010149, D5B020351 & D5B040358.

NOTE: Applicable samples will be stored at no extra charge for a period of 30 days following the final report. Samples will be properly disposed of after 30 days, unless notified otherwise in writing.

Please reference Invoice number when remitting.

Customer P.O. Number / Contract Number / Reference
0000422204//Wichita, KS

STL Project Manager: Cheryl Sklenar

Salesperson

| | |
|---|---|
| Sub Total | |
| Tax | |
| Total | 5,599.00 |

DUPLICATE COPY
Severn Trent Laboratories, Inc.

TL-4027 R:10/02

TAX ID# 23-2919996

SEVERN TRENT STL

STL Denver
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

# ANALYTICAL REPORT

**SOILS**

**CLEAN HARBORS WICHITA**

**Lot #: D5B010149**

**Janette Wilson**

**Cameron-Cole LLC**
**5777 Central Avenue, Suite 100**
**Boulder, CO 80301**

**cc: Will Huskie**
**cc: John Arbuthnot**

**SEVERN TRENT LABORATORIES, INC.**

**Cheryl Sklenar**
**Project Manager**

**February 21, 2005**

This report shall not be reproduced except in full, without the written approval of the laboratory

# Table Of Contents

## *Standard Deliverables*

| Report Contents | Total Number of Pages |
|---|---|
| ***Standard Deliverables*** *The Cover Letter and the Report Cover page are considered integral parts of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.* | 75 |


- **Table of Contents**
- **Case Narrative**
- **Executive Summary – Detection Highlights**
- **Methods Summary**
- **Method/Analyst Summary**
- **Lot Sample Summary**
- **Analytical Results**
- **QC Data Association Summary**
- **Hold Time Report**
- **Chain-of-Custody**

# CASE NARRATIVE

Client Name: Clean Harbors Wichita
Project Name:
Project Number:
Sample Delivery Group: D5B010149
Narrative Date: 02/21/05

**Sample Receipt**

- The following report contains the analytical results for nineteen samples, submitted to STL Denver by Cameron-Cole, Inc., in support of the Clean Harbors Wichita Site. The samples were received intact, at a temperature of –19.1°C, on February 1, 2005, according to documented sample acceptance procedures. Results for the following analyses can be found in this report: GC/MS Volatiles. No anomalies were encountered during sample receipt.

**GC/MS Volatiles**

- Sample analysis revealed detected target analytes at or above Clean Harbors (Wichita)'s RLs, as detailed in the Executive Summary-Detection Highlights Report. The samples were analyzed within holding time and without incident, with the exception of the following items noted.

- Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Samples B-96V-4', B-96V-14', B-31V-6', B-86V-3.5' and B-86V-12' were originally analyzed using the low level analysis procedure. Upon review of the data, it was found that the concentrations of several target compounds exceeded the linear calibration range. As a result, the samples were re-analyzed unavoidably outside of hold time using the medium-level preparation procedure. Sample B-86V-3.5' required a 1:5 dilution, in addition to the medium level analysis. Those results that exceeded the linear calibration range are flagged with an "E". The reporting limits are elevated relative to the preparation procedure and dilutions required. Both the original and reanalysis data are reported for comparison, as instructed by the client.

- Surrogate Toluene-d8 was recovered outside the recovery control limits for samples B-111-6" and B-31V-6', due to obvious matrix interference.

- The method required MS/MSDs could not be performed for QC prep batches 5.35269 and 5046354, due to insufficient sample volume submitted by the client. Method precision and accuracy were verified by the acceptable LCS/LCSD analysis data.

These data and reporting limits are being used specifically to meet the needs of this project. All RLs are supported by STL Denver's Method Detection Limits (MDLs). Reporting limits in this report are at or above the MDL.

I certify that the data presented in this report are accurate, complete, and meets the minimum quality assurance standards in 40-CFR 136, 40-CFR 141, and/or SW846. The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. An assessment of the quality of the data, noting any exceptions, outliers, and/or problems encountered have been narrated herein.

Cheryl Skenar
Project Manager

2/21/05
Date

# EXECUTIVE SUMMARY - Detection Highlights

D5B010149

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **B-106V-13' 01/31/05 13:50 010** | | | | |
| Tetrachloroethene | 60 | 5.0 | ug/kg | SW846 8260B |
| **B-111-6'' 01/31/05 14:10 011** | | | | |
| Tetrachloroethene | 33 | 5.0 | ug/kg | SW846 8260B |
| Trichloroethene | 10 | 5.0 | ug/kg | SW846 8260B |
| **B-111-3' 01/31/05 14:15 012** | | | | |
| Tetrachloroethene | 14 | 5.0 | ug/kg | SW846 8260B |
| **B-111-15' 01/31/05 14:25 013** | | | | |
| Tetrachloroethene | 9.2 | 5.0 | ug/kg | SW846 8260B |
| **B-31V-6' 01/31/05 15:05 014** | | | | |
| n-Butylbenzene | 790 | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | 420 | 250 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | 1300 | 120 | ug/kg | SW846 8260B |
| Ethylbenzene | 2700 | 250 | ug/kg | SW846 8260B |
| Isopropylbenzene | 310 | 250 | ug/kg | SW846 8260B |
| p-Isopropyltoluene | 280 | 250 | ug/kg | SW846 8260B |
| Naphthalene | 570 | 250 | ug/kg | SW846 8260B |
| n-Propylbenzene | 670 | 250 | ug/kg | SW846 8260B |
| Toluene | 260 | 250 | ug/kg | SW846 8260B |
| 1,2,4-Trimethylbenzene | 3400 | 250 | ug/kg | SW846 8260B |
| 1,3,5-Trimethylbenzene | 1400 | 250 | ug/kg | SW846 8260B |
| m-Xylene & p-Xylene | 1200 | 120 | ug/kg | SW846 8260B |
| o-Xylene | 440 | 120 | ug/kg | SW846 8260B |
| n-Butylbenzene | 350 E | 5.0 | ug/kg | SW846 8260B |
| sec-Butylbenzene | 150 | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | 310 E | 5.0 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | 11 | 5.0 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | 8.6 | 5.0 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | 1800 E | 2.5 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | 6.6 | 2.5 | ug/kg | SW846 8260B |
| Ethylbenzene | 1800 E | 5.0 | ug/kg | SW846 8260B |
| Isopropylbenzene | 220 E | 5.0 | ug/kg | SW846 8260B |
| p-Isopropyltoluene | 110 | 5.0 | ug/kg | SW846 8260B |
| Naphthalene | 190 | 5.0 | ug/kg | SW846 8260B |
| n-Propylbenzene | 480 E | 5.0 | ug/kg | SW846 8260B |
| Toluene | 340 E | 5.0 | ug/kg | SW846 8260B |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

D5B010149

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **B-31V-6' 01/31/05 15:05 014** | | | | |
| 1,2,4-Trimethylbenzene | 980 E | 5.0 | ug/kg | SW846 8260B |
| 1,3,5-Trimethylbenzene | 850 E | 5.0 | ug/kg | SW846 8260B |
| Vinyl chloride | 440 E | 5.0 | ug/kg | SW846 8260B |
| o-Xylene | 380 E | 2.5 | ug/kg | SW846 8260B |
| m-Xylene & p-Xylene | 1000 E | 2.5 | ug/kg | SW846 8260B |
| **B-86V-3.5' 01/31/05 15:45 015** | | | | |
| Tetrachloroethene | 45000 | 1300 | ug/kg | SW846 8260B |
| Trichloroethene | 3800 | 1300 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | 14 | 2.5 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | 4.7 | 2.5 | ug/kg | SW846 8260B |
| Naphthalene | 22 | 5.0 | ug/kg | SW846 8260B |
| Tetrachloroethene | 2600 E | 5.0 | ug/kg | SW846 8260B |
| Trichloroethene | 380 E | 5.0 | ug/kg | SW846 8260B |
| 1,2,4-Trimethylbenzene | 16 | 5.0 | ug/kg | SW846 8260B |
| **B-86V-12' 01/31/05 15:55 016** | | | | |
| Tetrachloroethene | 1200 | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | 1400 E | 5.0 | ug/kg | SW846 8260B |
| Trichloroethene | 14 | 5.0 | ug/kg | SW846 8260B |
| **B-110-3' 01/31/05 16:10 018** | | | | |
| Tetrachloroethene | 32 | 5.0 | ug/kg | SW846 8260B |
| **B-110-13' 01/31/05 16:15 019** | | | | |
| cis-1,2-Dichloroethene | 4.8 | 2.5 | ug/kg | SW846 8260B |
| Tetrachloroethene | 33 | 5.0 | ug/kg | SW846 8260B |

# METHODS SUMMARY

**D5B010149**

| PARAMETER | ANALYTICAL METHOD | PREPARATION METHOD |
|---|---|---|
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# METHOD / ANALYST SUMMARY

**D5B010149**

| ANALYTICAL METHOD | ANALYST | ANALYST ID |
|---|---|---|
| SW846 8260B | Dan Appelhans | 001008 |
| SW846 8260B | Hauqing Zhou | 005417 |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

**D5B010149**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| G3JHC | 001 | B-96V-4' | 01/31/05 | 09:10 |
| G3JHE | 002 | B-96V-14' | 01/31/05 | 09:20 |
| G3JHF | 003 | B-100V-4' | 01/31/05 | 09:35 |
| G3JHG | 004 | B-100V-14' | 01/31/05 | 09:40 |
| G3JHH | 005 | B-103V-8' | 01/31/05 | 10:45 |
| G3JHJ | 006 | B-103V-16' | 01/31/05 | 11:00 |
| G3JHL | 007 | B-70V-8' | 01/31/05 | 11:25 |
| G3JHM | 008 | B-70V-16' | 01/31/05 | 11:35 |
| G3JHN | 009 | B-106V-4' | 01/31/05 | 13:45 |
| G3JHP | 010 | B-106V-13' | 01/31/05 | 13:50 |
| G3JHR | 011 | B-111-6'' | 01/31/05 | 14:10 |
| G3JHW | 012 | B-111-3' | 01/31/05 | 14:15 |
| G3JHX | 013 | B-111-15' | 01/31/05 | 14:25 |
| G3JH1 | 014 | B-31V-6' | 01/31/05 | 15:05 |
| G3JH3 | 015 | B-86V-3.5' | 01/31/05 | 15:45 |
| G3JH4 | 016 | B-86V-12' | 01/31/05 | 15:55 |
| G3JH6 | 017 | B-110-6" | 01/31/05 | 16:00 |
| G3JH7 | 018 | B-110-3' | 01/31/05 | 16:10 |
| G3JH9 | 019 | B-110-13' | 01/31/05 | 16:15 |

**NOTE(S):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

# EXECUTIVE SUMMARY - Detection Highlights

D5B010149

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **B-96V-4' 01/31/05 09:10 001** | | | | |
| cis-1,2-Dichloroethene | 220 | 120 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | 290 E | 2.5 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | 4.7 | 2.5 | ug/kg | SW846 8260B |
| Trichloroethene | 150 | 5.0 | ug/kg | SW846 8260B |
| Vinyl chloride | 24 | 5.0 | ug/kg | SW846 8260B |
| **B-96V-14' 01/31/05 09:20 002** | | | | |
| Tetrachloroethene | 280 | 250 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | 230 E | 2.5 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | 6.4 | 2.5 | ug/kg | SW846 8260B |
| Tetrachloroethene | 360 E | 5.0 | ug/kg | SW846 8260B |
| Trichloroethene | 45 | 5.0 | ug/kg | SW846 8260B |
| Vinyl chloride | 19 | 5.0 | ug/kg | SW846 8260B |
| **B-100V-4' 01/31/05 09:35 003** | | | | |
| cis-1,2-Dichloroethene | 76 | 2.5 | ug/kg | SW846 8260B |
| Trichloroethene | 12 | 5.0 | ug/kg | SW846 8260B |
| **B-103V-8' 01/31/05 10:45 005** | | | | |
| Tetrachloroethene | 91 | 5.0 | ug/kg | SW846 8260B |
| **B-103V-16' 01/31/05 11:00 006** | | | | |
| Tetrachloroethene | 17 | 5.0 | ug/kg | SW846 8260B |
| **B-70V-8' 01/31/05 11:25 007** | | | | |
| Tetrachloroethene | 28 | 5.0 | ug/kg | SW846 8260B |
| **B-70V-16' 01/31/05 11:35 008** | | | | |
| 1,1-Dichloroethane | 6.5 | 5.0 | ug/kg | SW846 8260B |
| Tetrachloroethene | 11 | 5.0 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | 6.9 | 5.0 | ug/kg | SW846 8260B |
| **B-106V-4' 01/31/05 13:45 009** | | | | |
| Tetrachloroethene | 120 | 5.0 | ug/kg | SW846 8260B |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

D5B010149

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **B-106V-13' 01/31/05 13:50 010** | | | | |
| Tetrachloroethene | 60 | 5.0 | ug/kg | SW846 8260B |
| **B-111-6'' 01/31/05 14:10 011** | | | | |
| Tetrachloroethene | 33 | 5.0 | ug/kg | SW846 8260B |
| Trichloroethene | 10 | 5.0 | ug/kg | SW846 8260B |
| **B-111-3' 01/31/05 14:15 012** | | | | |
| Tetrachloroethene | 14 | 5.0 | ug/kg | SW846 8260B |
| **B-111-15' 01/31/05 14:25 013** | | | | |
| Tetrachloroethene | 9.2 | 5.0 | ug/kg | SW846 8260B |
| **B-31V-6' 01/31/05 15:05 014** | | | | |
| n-Butylbenzene | 790 | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | 420 | 250 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | 1300 | 120 | ug/kg | SW846 8260B |
| Ethylbenzene | 2700 | 250 | ug/kg | SW846 8260B |
| Isopropylbenzene | 310 | 250 | ug/kg | SW846 8260B |
| p-Isopropyltoluene | 280 | 250 | ug/kg | SW846 8260B |
| Naphthalene | 570 | 250 | ug/kg | SW846 8260B |
| n-Propylbenzene | 670 | 250 | ug/kg | SW846 8260B |
| Toluene | 260 | 250 | ug/kg | SW846 8260B |
| 1,2,4-Trimethylbenzene | 3400 | 250 | ug/kg | SW846 8260B |
| 1,3,5-Trimethylbenzene | 1400 | 250 | ug/kg | SW846 8260B |
| m-Xylene & p-Xylene | 1200 | 120 | ug/kg | SW846 8260B |
| o-Xylene | 440 | 120 | ug/kg | SW846 8260B |
| n-Butylbenzene | 350 E | 5.0 | ug/kg | SW846 8260B |
| sec-Butylbenzene | 150 | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | 310 E | 5.0 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | 11 | 5.0 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | 8.6 | 5.0 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | 1800 E | 2.5 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | 6.6 | 2.5 | ug/kg | SW846 8260B |
| Ethylbenzene | 1800 E | 5.0 | ug/kg | SW846 8260B |
| Isopropylbenzene | 220 E | 5.0 | ug/kg | SW846 8260B |
| p-Isopropyltoluene | 110 | 5.0 | ug/kg | SW846 8260B |
| Naphthalene | 190 | 5.0 | ug/kg | SW846 8260B |
| n-Propylbenzene | 480 E | 5.0 | ug/kg | SW846 8260B |
| Toluene | 340 E | 5.0 | ug/kg | SW846 8260B |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

D5B010149

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **B-31V-6' 01/31/05 15:05 014** | | | | |
| 1,2,4-Trimethylbenzene | 980 E | 5.0 | ug/kg | SW846 8260B |
| 1,3,5-Trimethylbenzene | 850 E | 5.0 | ug/kg | SW846 8260B |
| Vinyl chloride | 440 E | 5.0 | ug/kg | SW846 8260B |
| o-Xylene | 380 E | 2.5 | ug/kg | SW846 8260B |
| m-Xylene & p-Xylene | 1000 E | 2.5 | ug/kg | SW846 8260B |
| **B-86V-3.5' 01/31/05 15:45 015** | | | | |
| Tetrachloroethene | 45000 | 1300 | ug/kg | SW846 8260B |
| Trichloroethene | 3800 | 1300 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | 14 | 2.5 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | 4.7 | 2.5 | ug/kg | SW846 8260B |
| Naphthalene | 22 | 5.0 | ug/kg | SW846 8260B |
| Tetrachloroethene | 2600 E | 5.0 | ug/kg | SW846 8260B |
| Trichloroethene | 380 E | 5.0 | ug/kg | SW846 8260B |
| 1,2,4-Trimethylbenzene | 16 | 5.0 | ug/kg | SW846 8260B |
| **B-86V-12' 01/31/05 15:55 016** | | | | |
| Tetrachloroethene | 1200 | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | 1400 E | 5.0 | ug/kg | SW846 8260B |
| Trichloroethene | 14 | 5.0 | ug/kg | SW846 8260B |
| **B-110-3' 01/31/05 16:10 018** | | | | |
| Tetrachloroethene | 32 | 5.0 | ug/kg | SW846 8260B |
| **B-110-13' 01/31/05 16:15 019** | | | | |
| cis-1,2-Dichloroethene | 4.8 | 2.5 | ug/kg | SW846 8260B |
| Tetrachloroethene | 33 | 5.0 | ug/kg | SW846 8260B |

# METHODS SUMMARY

**D5B010149**

| PARAMETER | ANALYTICAL METHOD | PREPARATION METHOD |
|---|---|---|
| Volatile Organics by GC/MS | SW846 8260B | SW846 5035 |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# METHOD / ANALYST SUMMARY

**D5B010149**

| ANALYTICAL METHOD | ANALYST | ANALYST ID |
|---|---|---|
| SW846 8260B | Dan Appelhans | 001008 |
| SW846 8260B | Hauqing Zhou | 005417 |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

D5B010149

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| G3JHC | 001 | B-96V-4' | 01/31/05 | 09:10 |
| G3JHE | 002 | B-96V-14' | 01/31/05 | 09:20 |
| G3JHF | 003 | B-100V-4' | 01/31/05 | 09:35 |
| G3JHG | 004 | B-100V-14' | 01/31/05 | 09:40 |
| G3JHH | 005 | B-103V-8' | 01/31/05 | 10:45 |
| G3JHJ | 006 | B-103V-16' | 01/31/05 | 11:00 |
| G3JHL | 007 | B-70V-8' | 01/31/05 | 11:25 |
| G3JHM | 008 | B-70V-16' | 01/31/05 | 11:35 |
| G3JHN | 009 | B-106V-4' | 01/31/05 | 13:45 |
| G3JHP | 010 | B-106V-13' | 01/31/05 | 13:50 |
| G3JHR | 011 | B-111-6'' | 01/31/05 | 14:10 |
| G3JHW | 012 | B-111-3' | 01/31/05 | 14:15 |
| G3JHX | 013 | B-111-15' | 01/31/05 | 14:25 |
| G3JH1 | 014 | B-31V-6' | 01/31/05 | 15:05 |
| G3JH3 | 015 | B-86V-3.5' | 01/31/05 | 15:45 |
| G3JH4 | 016 | B-86V-12' | 01/31/05 | 15:55 |
| G3JH6 | 017 | B-110-6" | 01/31/05 | 16:00 |
| G3JH7 | 018 | B-110-3' | 01/31/05 | 16:10 |
| G3JH9 | 019 | B-110-13' | 01/31/05 | 16:15 |

**NOTE(S):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Cameron-Cole LLC

Client Sample ID: B-96V-4'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-001 **Work Order #...:** G3JHC1AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 09:10 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5046354 **Analysis Time..:** 14:34
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 250 | ug/kg |
| Bromobenzene | ND | 250 | ug/kg |
| Bromochloromethane | ND | 250 | ug/kg |
| Bromodichloromethane | ND | 250 | ug/kg |
| Bromoform | ND | 250 | ug/kg |
| Bromomethane | ND | 500 | ug/kg |
| n-Butylbenzene | ND | 250 | ug/kg |
| sec-Butylbenzene | ND | 250 | ug/kg |
| tert-Butylbenzene | ND | 250 | ug/kg |
| Carbon tetrachloride | ND | 250 | ug/kg |
| Chlorobenzene | ND | 250 | ug/kg |
| Chlorodibromomethane | ND | 250 | ug/kg |
| Chloroethane | ND | 500 | ug/kg |
| Chloroform | ND | 500 | ug/kg |
| Chloromethane | ND | 500 | ug/kg |
| 2-Chlorotoluene | ND | 250 | ug/kg |
| 4-Chlorotoluene | ND | 250 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 500 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 250 | ug/kg |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg |
| Dichlorodifluoromethane | ND | 500 | ug/kg |
| 1,1-Dichloroethane | ND | 250 | ug/kg |
| 1,2-Dichloroethane | ND | 250 | ug/kg |
| **cis-1,2-Dichloroethene** | **220** | **120** | **ug/kg** |
| trans-1,2-Dichloroethene | ND | 120 | ug/kg |
| 1,1-Dichloroethene | ND | 250 | ug/kg |
| 1,2-Dichloropropane | ND | 250 | ug/kg |
| 1,3-Dichloropropane | ND | 250 | ug/kg |
| 2,2-Dichloropropane | ND | 250 | ug/kg |
| 1,1-Dichloropropene | ND | 250 | ug/kg |
| Ethylbenzene | ND | 250 | ug/kg |
| Hexachlorobutadiene | ND | 250 | ug/kg |
| Isopropylbenzene | ND | 250 | ug/kg |
| p-Isopropyltoluene | ND | 250 | ug/kg |
| Methylene chloride | ND | 250 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-96V-4'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-001 **Work Order #...:** G3JHC1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Naphthalene | ND | 250 | ug/kg |
| n-Propylbenzene | ND | 250 | ug/kg |
| Styrene | ND | 250 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg |
| Tetrachloroethene | ND | 250 | ug/kg |
| Toluene | ND | 250 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 250 | ug/kg |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg |
| Trichloroethene | ND | 250 | ug/kg |
| Trichlorofluoromethane | ND | 500 | ug/kg |
| 1,2,3-Trichloropropane | ND | 250 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 250 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 250 | ug/kg |
| Vinyl chloride | ND | 250 | ug/kg |
| m-Xylene & p-Xylene | ND | 120 | ug/kg |
| o-Xylene | ND | 120 | ug/kg |
| Dibromomethane | ND | 250 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 92 | (43 - 131) |
| 1,2-Dichloroethane-d4 | 85 | (32 - 133) |
| Toluene-d8 | 88 | (25 - 145) |
| 4-Bromofluorobenzene | 93 | (29 - 148) |

Cameron-Cole LLC

Client Sample ID: B-96V-4'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-001 **Work Order #...:** G3JHC2AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 09:10 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 11:59
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| **cis-1,2-Dichloroethene** | **290 E** | **2.5** | **ug/kg** |
| **trans-1,2-Dichloroethene** | **4.7** | **2.5** | **ug/kg** |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-96V-4'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-001 **Work Order #...:** G3JHC2AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| Tetrachloroethene | ND | 5.0 | ug/kg |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| **Trichloroethene** | **150** | **5.0** | **ug/kg** |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| **Vinyl chloride** | **24** | **5.0** | **ug/kg** |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 104 | (43 - 131) |
| 1,2-Dichloroethane-d4 | 97 | (32 - 133) |
| 4-Bromofluorobenzene | 93 | (29 - 148) |
| Toluene-d8 | 112 | (25 - 145) |

**NOTE(S):**

E Estimated result. Result concentration exceeds the calibration range.

Cameron-Cole LLC

Client Sample ID: B-96V-14'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-002 **Work Order #...:** G3JHE1AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 09:20 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5046354 **Analysis Time..:** 14:59
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 250 | ug/kg |
| Bromobenzene | ND | 250 | ug/kg |
| Bromochloromethane | ND | 250 | ug/kg |
| Bromodichloromethane | ND | 250 | ug/kg |
| Bromoform | ND | 250 | ug/kg |
| Bromomethane | ND | 500 | ug/kg |
| n-Butylbenzene | ND | 250 | ug/kg |
| sec-Butylbenzene | ND | 250 | ug/kg |
| tert-Butylbenzene | ND | 250 | ug/kg |
| Carbon tetrachloride | ND | 250 | ug/kg |
| Chlorobenzene | ND | 250 | ug/kg |
| Chlorodibromomethane | ND | 250 | ug/kg |
| Chloroethane | ND | 500 | ug/kg |
| Chloroform | ND | 500 | ug/kg |
| Chloromethane | ND | 500 | ug/kg |
| 2-Chlorotoluene | ND | 250 | ug/kg |
| 4-Chlorotoluene | ND | 250 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 500 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 250 | ug/kg |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg |
| Dichlorodifluoromethane | ND | 500 | ug/kg |
| 1,1-Dichloroethane | ND | 250 | ug/kg |
| 1,2-Dichloroethane | ND | 250 | ug/kg |
| cis-1,2-Dichloroethene | ND | 120 | ug/kg |
| trans-1,2-Dichloroethene | ND | 120 | ug/kg |
| 1,1-Dichloroethene | ND | 250 | ug/kg |
| 1,2-Dichloropropane | ND | 250 | ug/kg |
| 1,3-Dichloropropane | ND | 250 | ug/kg |
| 2,2-Dichloropropane | ND | 250 | ug/kg |
| 1,1-Dichloropropene | ND | 250 | ug/kg |
| Ethylbenzene | ND | 250 | ug/kg |
| Hexachlorobutadiene | ND | 250 | ug/kg |
| Isopropylbenzene | ND | 250 | ug/kg |
| p-Isopropyltoluene | ND | 250 | ug/kg |
| Methylene chloride | ND | 250 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-96V-14'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-002 **Work Order #...:** G3JHE1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Naphthalene | ND | 250 | ug/kg |
| n-Propylbenzene | ND | 250 | ug/kg |
| Styrene | ND | 250 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg |
| **Tetrachloroethene** | **280** | **250** | **ug/kg** |
| Toluene | ND | 250 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 250 | ug/kg |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg |
| Trichloroethene | ND | 250 | ug/kg |
| Trichlorofluoromethane | ND | 500 | ug/kg |
| 1,2,3-Trichloropropane | ND | 250 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 250 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 250 | ug/kg |
| Vinyl chloride | ND | 250 | ug/kg |
| m-Xylene & p-Xylene | ND | 120 | ug/kg |
| o-Xylene | ND | 120 | ug/kg |
| Dibromomethane | ND | 250 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 82 | (43 - 131) |
| 1,2-Dichloroethane-d4 | 78 | (32 - 133) |
| Toluene-d8 | 83 | (25 - 145) |
| 4-Bromofluorobenzene | 83 | (29 - 148) |

Cameron-Cole LLC

Client Sample ID: B-96V-14'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-002 **Work Order #...:** G3JHE2AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 09:20 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 12:24
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| **cis-1,2-Dichloroethene** | **230 E** | **2.5** | **ug/kg** |
| **trans-1,2-Dichloroethene** | **6.4** | **2.5** | **ug/kg** |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-96V-14'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-002 **Work Order #...:** G3JHE2AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **360 E** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| **Trichloroethene** | **45** | **5.0** | **ug/kg** |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| **Vinyl chloride** | **19** | **5.0** | **ug/kg** |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 104 | (43 - 131) |
| 1,2-Dichloroethane-d4 | 98 | (32 - 133) |
| 4-Bromofluorobenzene | 99 | (29 - 148) |
| Toluene-d8 | 109 | (25 - 145) |

**NOTE(S):**

E Estimated result. Result concentration exceeds the calibration range.

Cameron-Cole LLC

Client Sample ID: B-100V-4'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-003 **Work Order #...:** G3JHF1AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 09:35 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 12:48
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| **cis-1,2-Dichloroethene** | **76** | **2.5** | **ug/kg** |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-100V-4'

GC/MS Volatiles

Lot-Sample #...: D5B010149-003 Work Order #...: G3JHF1AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| Tetrachloroethene | ND | 5.0 | ug/kg |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| **Trichloroethene** | **12** | **5.0** | **ug/kg** |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 100 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 94 | (61 - 129) |
| 4-Bromofluorobenzene | 90 | (64 - 126) |
| Toluene-d8 | 106 | (70 - 128) |

Cameron-Cole LLC

Client Sample ID: B-100V-14'

GC/MS Volatiles

Lot-Sample #...: D5B010149-004 Work Order #...: G3JHG1AA Matrix.....: SOLID
Date Sampled...: 01/31/05 09:40 Date Received..: 02/01/05
Prep Date.....: 02/01/05 Analysis Date..: 02/03/05
Prep Batch #...: 5035269 Analysis Time..: 13:12
Dilution Factor: 1

Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-100V-14'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-004 **Work Order #...:** G3JHG1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| Tetrachloroethene | ND | 5.0 | ug/kg |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 99 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 96 | (61 - 129) |
| 4-Bromofluorobenzene | 97 | (64 - 126) |
| Toluene-d8 | 104 | (70 - 128) |

Cameron-Cole LLC

Client Sample ID: B-103V-8'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-005 **Work Order #...:** G3JHH1AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 10:45 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 13:36
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-103V-8'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-005 **Work Order #...:** G3JHH1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **91** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 99 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 93 | (61 - 129) |
| 4-Bromofluorobenzene | 98 | (64 - 126) |
| Toluene-d8 | 106 | (70 - 128) |

Cameron-Cole LLC

Client Sample ID: B-103V-16'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-006 **Work Order #...:** G3JHJ1AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 11:00 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 14:00
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-103V-16'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-006 **Work Order #...:** G3JHJ1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **17** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 101 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 97 | (61 - 129) |
| 4-Bromofluorobenzene | 100 | (64 - 126) |
| Toluene-d8 | 104 | (70 - 128) |

Cameron-Cole LLC

Client Sample ID: B-70V-8'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-007 **Work Order #...:** G3JHL1AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 11:25 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 14:25
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-70V-8'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-007 **Work Order #...:** G3JHL1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **28** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 103 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 102 | (61 - 129) |
| 4-Bromofluorobenzene | 102 | (64 - 126) |
| Toluene-d8 | 106 | (70 - 128) |

Cameron-Cole LLC

Client Sample ID: B-70V-16'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-008 **Work Order #...:** G3JHM1AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 11:35 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 14:49
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| **1,1-Dichloroethane** | **6.5** | **5.0** | **ug/kg** |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-70V-16'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-008 **Work Order #...:** G3JHM1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **11** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| **1,1,1-Trichloroethane** | **6.9** | **5.0** | **ug/kg** |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 100 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 96 | (61 - 129) |
| 4-Bromofluorobenzene | 97 | (64 - 126) |
| Toluene-d8 | 104 | (70 - 128) |

Cameron-Cole LLC

Client Sample ID: B-106V-4'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-009 **Work Order #...:** G3JHN1AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 13:45 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 15:13
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-106V-4'

GC/MS Volatiles

Lot-Sample #...: D5B010149-009 Work Order #...: G3JHN1AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **120** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 94 | (61 - 129) |
| 4-Bromofluorobenzene | 88 | (64 - 126) |
| Toluene-d8 | 108 | (70 - 128) |

Cameron-Cole LLC

Client Sample ID: B-106V-13'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-010 **Work Order #...:** G3JHP1AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 13:50 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 15:37
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-106V-13'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-010 **Work Order #...:** G3JHP1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **60** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 104 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 101 | (61 - 129) |
| 4-Bromofluorobenzene | 100 | (64 - 126) |
| Toluene-d8 | 109 | (70 - 128) |

Cameron-Cole LLC

Client Sample ID: B-111-6''

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-011 **Work Order #...:** G3JHR1AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 14:10 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 16:01
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-111-6''

GC/MS Volatiles

Lot-Sample #...: D5B010149-011 Work Order #...: G3JHR1AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **33** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| **Trichloroethene** | **10** | **5.0** | **ug/kg** |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 113 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 106 | (61 - 129) |
| 4-Bromofluorobenzene | 66 | (64 - 126) |
| Toluene-d8 | 148 * | (70 - 128) |

**NOTE(S):**

* Surrogate recovery is outside stated control limits.

Cameron-Cole LLC

Client Sample ID: B-111-3'

GC/MS Volatiles

Lot-Sample #...: D5B010149-012 Work Order #...: G3JHW1AA Matrix.....: SOLID
Date Sampled...: 01/31/05 14:15 Date Received..: 02/01/05
Prep Date.....: 02/01/05 Analysis Date..: 02/03/05
Prep Batch #...: 5035269 Analysis Time..: 16:26
Dilution Factor: 1

Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-111-3'

GC/MS Volatiles

Lot-Sample #...: D5B010149-012 Work Order #...: G3JHW1AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **14** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 94 | (61 - 129) |
| 4-Bromofluorobenzene | 89 | (64 - 126) |
| Toluene-d8 | 109 | (70 - 128) |

Cameron-Cole LLC

Client Sample ID: B-111-15'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-013 **Work Order #...:** G3JHX1AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 14:25 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 16:50
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-111-15'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-013 **Work Order #...:** G3JHX1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **9.2** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 103 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 100 | (61 - 129) |
| 4-Bromofluorobenzene | 97 | (64 - 126) |
| Toluene-d8 | 107 | (70 - 128) |

Cameron-Cole LLC

Client Sample ID: B-31V-6'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-014 **Work Order #...:** G3JH11AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 15:05 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5046354 **Analysis Time..:** 13:42
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 250 | ug/kg |
| Bromobenzene | ND | 250 | ug/kg |
| Bromochloromethane | ND | 250 | ug/kg |
| Bromodichloromethane | ND | 250 | ug/kg |
| Bromoform | ND | 250 | ug/kg |
| Bromomethane | ND | 500 | ug/kg |
| **n-Butylbenzene** | **790** | **250** | **ug/kg** |
| sec-Butylbenzene | ND | 250 | ug/kg |
| tert-Butylbenzene | ND | 250 | ug/kg |
| Carbon tetrachloride | ND | 250 | ug/kg |
| Chlorobenzene | ND | 250 | ug/kg |
| Chlorodibromomethane | ND | 250 | ug/kg |
| Chloroethane | ND | 500 | ug/kg |
| Chloroform | ND | 500 | ug/kg |
| Chloromethane | ND | 500 | ug/kg |
| 2-Chlorotoluene | ND | 250 | ug/kg |
| 4-Chlorotoluene | ND | 250 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 500 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 250 | ug/kg |
| **1,2-Dichlorobenzene** | **420** | **250** | **ug/kg** |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg |
| Dichlorodifluoromethane | ND | 500 | ug/kg |
| 1,1-Dichloroethane | ND | 250 | ug/kg |
| 1,2-Dichloroethane | ND | 250 | ug/kg |
| **cis-1,2-Dichloroethene** | **1300** | **120** | **ug/kg** |
| trans-1,2-Dichloroethene | ND | 120 | ug/kg |
| 1,1-Dichloroethene | ND | 250 | ug/kg |
| 1,2-Dichloropropane | ND | 250 | ug/kg |
| 1,3-Dichloropropane | ND | 250 | ug/kg |
| 2,2-Dichloropropane | ND | 250 | ug/kg |
| 1,1-Dichloropropene | ND | 250 | ug/kg |
| **Ethylbenzene** | **2700** | **250** | **ug/kg** |
| Hexachlorobutadiene | ND | 250 | ug/kg |
| **Isopropylbenzene** | **310** | **250** | **ug/kg** |
| **p-Isopropyltoluene** | **280** | **250** | **ug/kg** |
| Methylene chloride | ND | 250 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-31V-6'

GC/MS Volatiles

Lot-Sample #...: D5B010149-014 Work Order #...: G3JH11AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Naphthalene** | **570** | **250** | **ug/kg** |
| **n-Propylbenzene** | **670** | **250** | **ug/kg** |
| Styrene | ND | 250 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg |
| Tetrachloroethene | ND | 250 | ug/kg |
| **Toluene** | **260** | **250** | **ug/kg** |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 250 | ug/kg |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg |
| Trichloroethene | ND | 250 | ug/kg |
| Trichlorofluoromethane | ND | 500 | ug/kg |
| 1,2,3-Trichloropropane | ND | 250 | ug/kg |
| **1,2,4-Trimethylbenzene** | **3400** | **250** | **ug/kg** |
| **1,3,5-Trimethylbenzene** | **1400** | **250** | **ug/kg** |
| Vinyl chloride | ND | 250 | ug/kg |
| **m-Xylene & p-Xylene** | **1200** | **120** | **ug/kg** |
| **o-Xylene** | **440** | **120** | **ug/kg** |
| Dibromomethane | ND | 250 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 87 | (43 - 131) |
| 1,2-Dichloroethane-d4 | 84 | (32 - 133) |
| Toluene-d8 | 82 | (25 - 145) |
| 4-Bromofluorobenzene | 96 | (29 - 148) |

Cameron-Cole LLC

Client Sample ID: B-31V-6'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-014 **Work Order #...:** G3JH12AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 15:05 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 17:14
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| **n-Butylbenzene** | **350 E** | **5.0** | **ug/kg** |
| **sec-Butylbenzene** | **150** | **5.0** | **ug/kg** |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| **1,2-Dichlorobenzene** | **310 E** | **5.0** | **ug/kg** |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| **1,1-Dichloroethane** | **11** | **5.0** | **ug/kg** |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| **1,1-Dichloroethene** | **8.6** | **5.0** | **ug/kg** |
| **cis-1,2-Dichloroethene** | **1800 E** | **2.5** | **ug/kg** |
| **trans-1,2-Dichloroethene** | **6.6** | **2.5** | **ug/kg** |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| **Ethylbenzene** | **1800 E** | **5.0** | **ug/kg** |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| **Isopropylbenzene** | **220 E** | **5.0** | **ug/kg** |
| **p-Isopropyltoluene** | **110** | **5.0** | **ug/kg** |
| Methylene chloride | ND | 5.0 | ug/kg |
| **Naphthalene** | **190** | **5.0** | **ug/kg** |

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Cameron-Cole LLC

Client Sample ID: B-31V-6'

GC/MS Volatiles

Lot-Sample #...: D5B010149-014 Work Order #...: G3JH12AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **n-Propylbenzene** | **480 E** | **5.0** | **ug/kg** |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| Tetrachloroethene | ND | 5.0 | ug/kg |
| **Toluene** | **340 E** | **5.0** | **ug/kg** |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| **1,2,4-Trimethylbenzene** | **980 E** | **5.0** | **ug/kg** |
| **1,3,5-Trimethylbenzene** | **850 E** | **5.0** | **ug/kg** |
| **Vinyl chloride** | **440 E** | **5.0** | **ug/kg** |
| **o-Xylene** | **380 E** | **2.5** | **ug/kg** |
| **m-Xylene & p-Xylene** | **1000 E** | **2.5** | **ug/kg** |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 106 | (43 - 131) |
| 1,2-Dichloroethane-d4 | 97 | (32 - 133) |
| 4-Bromofluorobenzene | 105 | (29 - 148) |
| Toluene-d8 | 148 * | (25 - 145) |

**NOTE(S):**

* Surrogate recovery is outside stated control limits.

E Estimated result. Result concentration exceeds the calibration range.

Cameron-Cole LLC

Client Sample ID: B-86V-3.5'

GC/MS Volatiles

Lot-Sample #...: D5B010149-015 Work Order #...: G3JH31AA Matrix.....: SOLID
Date Sampled...: 01/31/05 15:45 Date Received..: 02/01/05
Prep Date.....: 02/01/05 Analysis Date..: 02/15/05
Prep Batch #...: 5046354 Analysis Time..: 14:08
Dilution Factor: 5.14

Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1300 | ug/kg |
| Bromobenzene | ND | 1300 | ug/kg |
| Bromochloromethane | ND | 1300 | ug/kg |
| Bromodichloromethane | ND | 1300 | ug/kg |
| Bromoform | ND | 1300 | ug/kg |
| Bromomethane | ND | 2600 | ug/kg |
| n-Butylbenzene | ND | 1300 | ug/kg |
| sec-Butylbenzene | ND | 1300 | ug/kg |
| tert-Butylbenzene | ND | 1300 | ug/kg |
| Carbon tetrachloride | ND | 1300 | ug/kg |
| Chlorobenzene | ND | 1300 | ug/kg |
| Chlorodibromomethane | ND | 1300 | ug/kg |
| Chloroethane | ND | 2600 | ug/kg |
| Chloroform | ND | 2600 | ug/kg |
| Chloromethane | ND | 2600 | ug/kg |
| 2-Chlorotoluene | ND | 1300 | ug/kg |
| 4-Chlorotoluene | ND | 1300 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2600 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 1300 | ug/kg |
| 1,2-Dichlorobenzene | ND | 1300 | ug/kg |
| 1,3-Dichlorobenzene | ND | 1300 | ug/kg |
| 1,4-Dichlorobenzene | ND | 1300 | ug/kg |
| Dichlorodifluoromethane | ND | 2600 | ug/kg |
| 1,1-Dichloroethane | ND | 1300 | ug/kg |
| 1,2-Dichloroethane | ND | 1300 | ug/kg |
| cis-1,2-Dichloroethene | ND | 640 | ug/kg |
| trans-1,2-Dichloroethene | ND | 640 | ug/kg |
| 1,1-Dichloroethene | ND | 1300 | ug/kg |
| 1,2-Dichloropropane | ND | 1300 | ug/kg |
| 1,3-Dichloropropane | ND | 1300 | ug/kg |
| 2,2-Dichloropropane | ND | 1300 | ug/kg |
| 1,1-Dichloropropene | ND | 1300 | ug/kg |
| Ethylbenzene | ND | 1300 | ug/kg |
| Hexachlorobutadiene | ND | 1300 | ug/kg |
| Isopropylbenzene | ND | 1300 | ug/kg |
| p-Isopropyltoluene | ND | 1300 | ug/kg |
| Methylene chloride | ND | 1300 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-86V-3.5'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-015 **Work Order #...:** G3JH31AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Naphthalene | ND | 1300 | ug/kg |
| n-Propylbenzene | ND | 1300 | ug/kg |
| Styrene | ND | 1300 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 1300 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 1300 | ug/kg |
| **Tetrachloroethene** | **45000** | **1300** | **ug/kg** |
| Toluene | ND | 1300 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 1300 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 1300 | ug/kg |
| 1,1,1-Trichloroethane | ND | 1300 | ug/kg |
| 1,1,2-Trichloroethane | ND | 1300 | ug/kg |
| **Trichloroethene** | **3800** | **1300** | **ug/kg** |
| Trichlorofluoromethane | ND | 2600 | ug/kg |
| 1,2,3-Trichloropropane | ND | 1300 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 1300 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 1300 | ug/kg |
| Vinyl chloride | ND | 1300 | ug/kg |
| m-Xylene & p-Xylene | ND | 640 | ug/kg |
| o-Xylene | ND | 640 | ug/kg |
| Dibromomethane | ND | 1300 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | NC,DIL | (43 - 131) |
| 1,2-Dichloroethane-d4 | NC,DIL | (32 - 133) |
| Toluene-d8 | NC,DIL | (25 - 145) |
| 4-Bromofluorobenzene | NC,DIL | (29 - 148) |

**NOTE(S):**

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Cameron-Cole LLC

Client Sample ID: B-86V-3.5'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-015 **Work Order #...:** G3JH32AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 15:45 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 17:38
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| **cis-1,2-Dichloroethene** | **14** | **2.5** | **ug/kg** |
| **trans-1,2-Dichloroethene** | **4.7** | **2.5** | **ug/kg** |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| **Naphthalene** | **22** | **5.0** | **ug/kg** |

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Cameron-Cole LLC

Client Sample ID: B-86V-3.5'

GC/MS Volatiles

Lot-Sample #...: D5B010149-015 Work Order #...: G3JH32AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **2600 E** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| **Trichloroethene** | **380 E** | **5.0** | **ug/kg** |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| **1,2,4-Trimethylbenzene** | **16** | **5.0** | **ug/kg** |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 102 | (43 - 131) |
| 1,2-Dichloroethane-d4 | 96 | (32 - 133) |
| 4-Bromofluorobenzene | 74 | (29 - 148) |
| Toluene-d8 | 112 | (25 - 145) |

**NOTE(S):**

E Estimated result. Result concentration exceeds the calibration range.

Cameron-Cole LLC

Client Sample ID: B-86V-12'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-016 **Work Order #...:** G3JH41AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 15:55 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5046354 **Analysis Time..:** 15:25
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 250 | ug/kg |
| Bromobenzene | ND | 250 | ug/kg |
| Bromochloromethane | ND | 250 | ug/kg |
| Bromodichloromethane | ND | 250 | ug/kg |
| Bromoform | ND | 250 | ug/kg |
| Bromomethane | ND | 500 | ug/kg |
| n-Butylbenzene | ND | 250 | ug/kg |
| sec-Butylbenzene | ND | 250 | ug/kg |
| tert-Butylbenzene | ND | 250 | ug/kg |
| Carbon tetrachloride | ND | 250 | ug/kg |
| Chlorobenzene | ND | 250 | ug/kg |
| Chlorodibromomethane | ND | 250 | ug/kg |
| Chloroethane | ND | 500 | ug/kg |
| Chloroform | ND | 500 | ug/kg |
| Chloromethane | ND | 500 | ug/kg |
| 2-Chlorotoluene | ND | 250 | ug/kg |
| 4-Chlorotoluene | ND | 250 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 500 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 250 | ug/kg |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg |
| Dichlorodifluoromethane | ND | 500 | ug/kg |
| 1,1-Dichloroethane | ND | 250 | ug/kg |
| 1,2-Dichloroethane | ND | 250 | ug/kg |
| cis-1,2-Dichloroethene | ND | 120 | ug/kg |
| trans-1,2-Dichloroethene | ND | 120 | ug/kg |
| 1,1-Dichloroethene | ND | 250 | ug/kg |
| 1,2-Dichloropropane | ND | 250 | ug/kg |
| 1,3-Dichloropropane | ND | 250 | ug/kg |
| 2,2-Dichloropropane | ND | 250 | ug/kg |
| 1,1-Dichloropropene | ND | 250 | ug/kg |
| Ethylbenzene | ND | 250 | ug/kg |
| Hexachlorobutadiene | ND | 250 | ug/kg |
| Isopropylbenzene | ND | 250 | ug/kg |
| p-Isopropyltoluene | ND | 250 | ug/kg |
| Methylene chloride | ND | 250 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-86V-12'

GC/MS Volatiles

Lot-Sample #...: D5B010149-016 Work Order #...: G3JH41AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Naphthalene | ND | 250 | ug/kg |
| n-Propylbenzene | ND | 250 | ug/kg |
| Styrene | ND | 250 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg |
| **Tetrachloroethene** | **1200** | **250** | **ug/kg** |
| Toluene | ND | 250 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 250 | ug/kg |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg |
| Trichloroethene | ND | 250 | ug/kg |
| Trichlorofluoromethane | ND | 500 | ug/kg |
| 1,2,3-Trichloropropane | ND | 250 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 250 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 250 | ug/kg |
| Vinyl chloride | ND | 250 | ug/kg |
| m-Xylene & p-Xylene | ND | 120 | ug/kg |
| o-Xylene | ND | 120 | ug/kg |
| Dibromomethane | ND | 250 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 85 | (43 - 131) |
| 1,2-Dichloroethane-d4 | 80 | (32 - 133) |
| Toluene-d8 | 86 | (25 - 145) |
| 4-Bromofluorobenzene | 86 | (29 - 148) |

Cameron-Cole LLC

Client Sample ID: B-86V-12'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-016 **Work Order #...:** G3JH42AA **Matrix.....:** SOLID
**Date Sampled...:** 01/31/05 15:55 **Date Received..:** 02/01/05
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269 **Analysis Time..:** 18:02
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-86V-12'

GC/MS Volatiles

**Lot-Sample #...:** D5B010149-016 **Work Order #...:** G3JH42AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **1400 E** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| **Trichloroethene** | **14** | **5.0** | **ug/kg** |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 101 | (43 - 131) |
| 1,2-Dichloroethane-d4 | 90 | (32 - 133) |
| 4-Bromofluorobenzene | 94 | (29 - 148) |
| Toluene-d8 | 106 | (25 - 145) |

**NOTE(S):**

E Estimated result. Result concentration exceeds the calibration range.

Cameron-Cole LLC

Client Sample ID: B-110-6"

GC/MS Volatiles

Lot-Sample #...: D5B010149-017 Work Order #...: G3JH61AA Matrix.....: SOLID
Date Sampled...: 01/31/05 16:00 Date Received..: 02/01/05
Prep Date.....: 02/01/05 Analysis Date..: 02/03/05
Prep Batch #...: 5035269 Analysis Time..: 18:27
Dilution Factor: 1

Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-110-6"

GC/MS Volatiles

Lot-Sample #...: D5B010149-017 Work Order #...: G3JH61AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| Tetrachloroethene | ND | 5.0 | ug/kg |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 101 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 93 | (61 - 129) |
| 4-Bromofluorobenzene | 86 | (64 - 126) |
| Toluene-d8 | 114 | (70 - 128) |

Cameron-Cole LLC

Client Sample ID: B-110-3'

GC/MS Volatiles

Lot-Sample #...: D5B010149-018 Work Order #...: G3JH71AA Matrix.....: SOLID
Date Sampled...: 01/31/05 16:10 Date Received..: 02/01/05
Prep Date.....: 02/01/05 Analysis Date..: 02/03/05
Prep Batch #...: 5035269 Analysis Time..: 18:51
Dilution Factor: 1

Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-110-3'

GC/MS Volatiles

Lot-Sample #...: D5B010149-018 Work Order #...: G3JH71AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **32** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 99 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 89 | (61 - 129) |
| 4-Bromofluorobenzene | 84 | (64 - 126) |
| Toluene-d8 | 111 | (70 - 128) |

Cameron-Cole LLC

Client Sample ID: B-110-13'

GC/MS Volatiles

Lot-Sample #...: D5B010149-019 Work Order #...: G3JH91AA Matrix.....: SOLID
Date Sampled...: 01/31/05 16:15 Date Received..: 02/01/05
Prep Date.....: 02/01/05 Analysis Date..: 02/03/05
Prep Batch #...: 5035269 Analysis Time..: 19:15
Dilution Factor: 1

Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg |
| Bromobenzene | ND | 5.0 | ug/kg |
| Bromochloromethane | ND | 5.0 | ug/kg |
| Bromodichloromethane | ND | 5.0 | ug/kg |
| Bromoform | ND | 5.0 | ug/kg |
| Bromomethane | ND | 10 | ug/kg |
| n-Butylbenzene | ND | 5.0 | ug/kg |
| sec-Butylbenzene | ND | 5.0 | ug/kg |
| tert-Butylbenzene | ND | 5.0 | ug/kg |
| Carbon tetrachloride | ND | 5.0 | ug/kg |
| Chlorobenzene | ND | 5.0 | ug/kg |
| Chlorodibromomethane | ND | 5.0 | ug/kg |
| Chloroethane | ND | 10 | ug/kg |
| Chloroform | ND | 10 | ug/kg |
| Chloromethane | ND | 10 | ug/kg |
| 2-Chlorotoluene | ND | 5.0 | ug/kg |
| 4-Chlorotoluene | ND | 5.0 | ug/kg |
| Dibromomethane | ND | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg |
| Dichlorodifluoromethane | ND | 10 | ug/kg |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg |
| **cis-1,2-Dichloroethene** | **4.8** | **2.5** | **ug/kg** |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg |
| Ethylbenzene | ND | 5.0 | ug/kg |
| Trichlorofluoromethane | ND | 10 | ug/kg |
| Hexachlorobutadiene | ND | 5.0 | ug/kg |
| Isopropylbenzene | ND | 5.0 | ug/kg |
| p-Isopropyltoluene | ND | 5.0 | ug/kg |
| Methylene chloride | ND | 5.0 | ug/kg |
| Naphthalene | ND | 5.0 | ug/kg |

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Cameron-Cole LLC

Client Sample ID: B-110-13'

GC/MS Volatiles

Lot-Sample #...: D5B010149-019 Work Order #...: G3JH91AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/kg |
| Styrene | ND | 5.0 | ug/kg |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg |
| **Tetrachloroethene** | **33** | **5.0** | **ug/kg** |
| Toluene | ND | 5.0 | ug/kg |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg |
| Trichloroethene | ND | 5.0 | ug/kg |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg |
| Vinyl chloride | ND | 5.0 | ug/kg |
| o-Xylene | ND | 2.5 | ug/kg |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 102 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 92 | (61 - 129) |
| 4-Bromofluorobenzene | 100 | (64 - 126) |
| Toluene-d8 | 109 | (70 - 128) |

# QC DATA ASSOCIATION SUMMARY

D5B010149

Sample Preparation and Analysis Control Numbers

| SAMPLE# | MATRIX | ANALYTICAL METHOD | LEACH BATCH # | PREP BATCH # | MS RUN# |
|---|---|---|---|---|---|
| 001 | SOLID | SW846 8260B | | 5035269 | |
| | SOLID | SW846 8260B | | 5046354 | |
| 002 | SOLID | SW846 8260B | | 5035269 | |
| | SOLID | SW846 8260B | | 5046354 | |
| 003 | SOLID | SW846 8260B | | 5035269 | |
| 004 | SOLID | SW846 8260B | | 5035269 | |
| 005 | SOLID | SW846 8260B | | 5035269 | |
| 006 | SOLID | SW846 8260B | | 5035269 | |
| 007 | SOLID | SW846 8260B | | 5035269 | |
| 008 | SOLID | SW846 8260B | | 5035269 | |
| 009 | SOLID | SW846 8260B | | 5035269 | |
| 010 | SOLID | SW846 8260B | | 5035269 | |
| 011 | SOLID | SW846 8260B | | 5035269 | |
| 012 | SOLID | SW846 8260B | | 5035269 | |
| 013 | SOLID | SW846 8260B | | 5035269 | |
| 014 | SOLID | SW846 8260B | | 5035269 | |
| | SOLID | SW846 8260B | | 5046354 | |
| 015 | SOLID | SW846 8260B | | 5035269 | |
| | SOLID | SW846 8260B | | 5046354 | |
| 016 | SOLID | SW846 8260B | | 5035269 | |
| | SOLID | SW846 8260B | | 5046354 | |
| 017 | SOLID | SW846 8260B | | 5035269 | |
| 018 | SOLID | SW846 8260B | | 5035269 | |

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# QC DATA ASSOCIATION SUMMARY

D5B010149

Sample Preparation and Analysis Control Numbers

| SAMPLE# | MATRIX | ANALYTICAL METHOD | LEACH BATCH # | PREP BATCH # | MS RUN# |
|---|---|---|---|---|---|
| 019 | SOLID | SW846 8260B | | 5035269 | |

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B010149
**MB Lot-Sample #:** D5B040000-269
**Work Order #...:** G3R9G1AA
**Matrix.....:** SOLID

**Prep Date.....:** 02/01/05
**Analysis Date..:** 02/03/05
**Prep Batch #...:** 5035269
**Analysis Time..:** 11:35
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Benzene | ND | 5.0 | ug/kg | SW846 8260B |
| Bromobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| Bromochloromethane | ND | 5.0 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/kg | SW846 8260B |
| Bromoform | ND | 5.0 | ug/kg | SW846 8260B |
| Bromomethane | ND | 10 | ug/kg | SW846 8260B |
| n-Butylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| sec-Butylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| tert-Butylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/kg | SW846 8260B |
| Chlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| Chlorodibromomethane | ND | 5.0 | ug/kg | SW846 8260B |
| Chloroethane | ND | 10 | ug/kg | SW846 8260B |
| Chloroform | ND | 10 | ug/kg | SW846 8260B |
| Chloromethane | ND | 10 | ug/kg | SW846 8260B |
| 2-Chlorotoluene | ND | 5.0 | ug/kg | SW846 8260B |
| 4-Chlorotoluene | ND | 5.0 | ug/kg | SW846 8260B |
| Dibromomethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 10 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,3-Dichloropropane | ND | 5.0 | ug/kg | SW846 8260B |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 10 | ug/kg | SW846 8260B |
| Hexachlorobutadiene | ND | 5.0 | ug/kg | SW846 8260B |
| Isopropylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| p-Isopropyltoluene | ND | 5.0 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/kg | SW846 8260B |
| Naphthalene | ND | 5.0 | ug/kg | SW846 8260B |
| n-Propylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| Styrene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | SW846 8260B |

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D5B010149 Work Order #...: G3R9G1AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| Toluene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 5.0 | ug/kg | SW846 8260B |
| o-Xylene | ND | 2.5 | ug/kg | SW846 8260B |
| m-Xylene & p-Xylene | ND | 2.5 | ug/kg | SW846 8260B |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/kg | SW846 8260B |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (68 - 130) |
| 1,2-Dichloroethane-d4 | 95 | (61 - 129) |
| 4-Bromofluorobenzene | 97 | (64 - 126) |
| Toluene-d8 | 102 | (70 - 128) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B010149 **Work Order #...:** G4G1A1AA **Matrix.....:** SOLID
**MB Lot-Sample #:** D5B150000-354

**Prep Date.....:** 02/01/05 **Analysis Time..:** 13:17
**Analysis Date..:** 02/15/05 **Prep Batch #...:** 5046354
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| Bromobenzene | ND | 250 | ug/kg | SW846 8260B |
| Bromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Bromomethane | ND | 500 | ug/kg | SW846 8260B |
| n-Butylbenzene | ND | 250 | ug/kg | SW846 8260B |
| sec-Butylbenzene | ND | 250 | ug/kg | SW846 8260B |
| tert-Butylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Chlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| Chlorodibromomethane | ND | 250 | ug/kg | SW846 8260B |
| Chloroethane | ND | 500 | ug/kg | SW846 8260B |
| Chloroform | ND | 500 | ug/kg | SW846 8260B |
| Chloromethane | ND | 500 | ug/kg | SW846 8260B |
| 2-Chlorotoluene | ND | 250 | ug/kg | SW846 8260B |
| 4-Chlorotoluene | ND | 250 | ug/kg | SW846 8260B |
| Dibromomethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| Dichlorodifluoromethane | ND | 500 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 120 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 120 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| 2,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 500 | ug/kg | SW846 8260B |
| Hexachlorobutadiene | ND | 250 | ug/kg | SW846 8260B |
| Isopropylbenzene | ND | 250 | ug/kg | SW846 8260B |
| p-Isopropyltoluene | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| Naphthalene | ND | 250 | ug/kg | SW846 8260B |
| n-Propylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Styrene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |

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## METHOD BLANK REPORT

### GC/MS Volatiles

Client Lot #...: D5B010149 Work Order #...: G4G1A1AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| Toluene | ND | 250 | ug/kg | SW846 8260B |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,2,4-Trichloro-benzene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2,3-Trichloropropane | ND | 250 | ug/kg | SW846 8260B |
| 1,2,4-Trimethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3,5-Trimethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 250 | ug/kg | SW846 8260B |
| o-Xylene | ND | 120 | ug/kg | SW846 8260B |
| m-Xylene & p-Xylene | ND | 120 | ug/kg | SW846 8260B |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 500 | ug/kg | SW846 8260B |
| 1,2-Dibromoethane (EDB) | ND | 250 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 96 | (43 - 131) |
| 1,2-Dichloroethane-d4 | 92 | (32 - 133) |
| Toluene-d8 | 94 | (25 - 145) |
| 4-Bromofluorobenzene | 94 | (29 - 148) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #...: D5B010149
LCS Lot-Sample#: D5B040000-269
Prep Date.....: 02/01/05
Prep Batch #...: 5035269
Dilution Factor: 1

Work Order #...: G3R9G1AC-LCS
G3R9G1AD-LCSD
Analysis Date..: 02/03/05
Analysis Time..: 10:21

Matrix.....: SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **Benzene** | **109** | **(76 - 124)** | | | **SW846 8260B** |
| | **109** | **(76 - 124)** | **0.23** | **(0-22)** | **SW846 8260B** |
| **Chlorobenzene** | **96** | **(78 - 118)** | | | **SW846 8260B** |
| | **96** | **(78 - 118)** | **0.14** | **(0-25)** | **SW846 8260B** |
| **1,1-Dichloroethene** | **125** | **(61 - 132)** | | | **SW846 8260B** |
| | **127** | **(61 - 132)** | **1.8** | **(0-24)** | **SW846 8260B** |
| **Toluene** | **100** | **(74 - 123)** | | | **SW846 8260B** |
| | **99** | **(74 - 123)** | **0.77** | **(0-24)** | **SW846 8260B** |
| **Trichloroethene** | **100** | **(74 - 121)** | | | **SW846 8260B** |
| | **100** | **(74 - 121)** | **0.22** | **(0-25)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 102 | (76 - 119) |
| | 100 | (76 - 119) |
| 1,2-Dichloroethane-d4 | 94 | (68 - 123) |
| | 90 | (68 - 123) |
| 4-Bromofluorobenzene | 99 | (75 - 122) |
| | 97 | (75 - 122) |
| Toluene-d8 | 107 | (77 - 119) |
| | 105 | (77 - 119) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #...: D5B010149
LCS Lot-Sample#: D5B040000-269
Prep Date.....: 02/01/05
Prep Batch #...: 5035269
Dilution Factor: 1

Work Order #...: G3R9G1AC-LCS
G3R9G1AD-LCSD
Analysis Date..: 02/03/05
Analysis Time..: 10:21

Matrix.....: SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | RPD | METHOD |
|---|---|---|---|---|---|---|
| **Benzene** | **50.0** | **54.6** | **ug/kg** | **109** | | **SW846 8260B** |
| | **50.0** | **54.7** | **ug/kg** | **109** | **0.23** | **SW846 8260B** |
| **Chlorobenzene** | **50.0** | **47.9** | **ug/kg** | **96** | | **SW846 8260B** |
| | **50.0** | **47.9** | **ug/kg** | **96** | **0.14** | **SW846 8260B** |
| **1,1-Dichloroethene** | **50.0** | **62.5** | **ug/kg** | **125** | | **SW846 8260B** |
| | **50.0** | **63.7** | **ug/kg** | **127** | **1.8** | **SW846 8260B** |
| **Toluene** | **50.0** | **49.9** | **ug/kg** | **100** | | **SW846 8260B** |
| | **50.0** | **49.6** | **ug/kg** | **99** | **0.77** | **SW846 8260B** |
| **Trichloroethene** | **50.0** | **50.2** | **ug/kg** | **100** | | **SW846 8260B** |
| | **50.0** | **50.1** | **ug/kg** | **100** | **0.22** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 102 | (76 - 119) |
| | 100 | (76 - 119) |
| 1,2-Dichloroethane-d4 | 94 | (68 - 123) |
| | 90 | (68 - 123) |
| 4-Bromofluorobenzene | 99 | (75 - 122) |
| | 97 | (75 - 122) |
| Toluene-d8 | 107 | (77 - 119) |
| | 105 | (77 - 119) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B010149 **Work Order #...:** G4G1A1AC-LCS **Matrix.....:** SOLID
**LCS Lot-Sample#:** D5B150000-354 G4G1A1AD-LCSD
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5046354 **Analysis Time..:** 12:26
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **106** | **(54 - 124)** | | | **SW846 8260B** |
| | **91** | **(54 - 124)** | **14** | **(0-22)** | **SW846 8260B** |
| **Benzene** | **95** | **(78 - 130)** | | | **SW846 8260B** |
| | **89** | **(78 - 130)** | **5.9** | **(0-20)** | **SW846 8260B** |
| **Chlorobenzene** | **98** | **(79 - 120)** | | | **SW846 8260B** |
| | **90** | **(79 - 120)** | **8.4** | **(0-20)** | **SW846 8260B** |
| **Trichloroethene** | **98** | **(80 - 127)** | | | **SW846 8260B** |
| | **94** | **(80 - 127)** | **3.7** | **(0-20)** | **SW846 8260B** |
| **Toluene** | **96** | **(76 - 126)** | | | **SW846 8260B** |
| | **87** | **(76 - 126)** | **9.3** | **(0-20)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 93 | (71 - 126) |
| | 87 | (71 - 126) |
| 1,2-Dichloroethane-d4 | 91 | (61 - 129) |
| | 82 | (61 - 129) |
| Toluene-d8 | 99 | (68 - 128) |
| | 87 | (68 - 128) |
| 4-Bromofluorobenzene | 98 | (80 - 128) |
| | 88 | (80 - 128) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

**Client Lot #...:** D5B010149 **Work Order #...:** G4G1A1AC-LCS **Matrix.....:** SOLID
**LCS Lot-Sample#:** D5B150000-354 G4G1A1AD-LCSD
**Prep Date.....:** 02/01/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5046354 **Analysis Time..:** 12:26
**Dilution Factor:** 1

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | RPD | METHOD |
|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **2000** | **2110** | **ug/kg** | **106** | | **SW846 8260B** |
| | **2000** | **1830** | **ug/kg** | **91** | **14** | **SW846 8260B** |
| **Benzene** | **2000** | **1900** | **ug/kg** | **95** | | **SW846 8260B** |
| | **2000** | **1790** | **ug/kg** | **89** | **5.9** | **SW846 8260B** |
| **Chlorobenzene** | **2000** | **1960** | **ug/kg** | **98** | | **SW846 8260B** |
| | **2000** | **1800** | **ug/kg** | **90** | **8.4** | **SW846 8260B** |
| **Trichloroethene** | **2000** | **1950** | **ug/kg** | **98** | | **SW846 8260B** |
| | **2000** | **1880** | **ug/kg** | **94** | **3.7** | **SW846 8260B** |
| **Toluene** | **2000** | **1920** | **ug/kg** | **96** | | **SW846 8260B** |
| | **2000** | **1750** | **ug/kg** | **87** | **9.3** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 93 | (71 - 126) |
| | 87 | (71 - 126) |
| 1,2-Dichloroethane-d4 | 91 | (61 - 129) |
| | 82 | (61 - 129) |
| Toluene-d8 | 99 | (68 - 128) |
| | 87 | (68 - 128) |
| 4-Bromofluorobenzene | 98 | (80 - 128) |
| | 88 | (80 - 128) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# HOLD TIME REPORT

Cameron-Cole LLC

Wichita, KS

HOLD TIME REPORT

Lab: GCMS VOA

| Lab ID # | Well ID | Collection Date | Method | Ext Dif | Ana Dif | Ext Hold | Ana Hold | Extraction Date | | Analysis Date | | Method Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D5B010149001 | B-96V-4' | 01/31/05 09:10 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 11:59 | VOA |
| | | | **8260B** | | **15** | | **14** | **02/01/05** | **12:30** | **02/15/05** | **14:34** | **VOA** |
| D5B010149002 | B-96V-14' | 01/31/05 09:20 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 12:24 | VOA |
| | | | **8260B** | | **15** | | **14** | **02/01/05** | **12:30** | **02/15/05** | **14:59** | **VOA** |
| D5B010149003 | B-100V-4' | 01/31/05 09:35 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 12:48 | VOA |
| D5B010149004 | B-100V-14' | 01/31/05 09:40 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 13:12 | VOA |
| D5B010149005 | B-103V-8' | 01/31/05 10:45 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 13:36 | VOA |
| D5B010149006 | B-103V-16' | 01/31/05 11:00 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 14:00 | VOA |
| D5B010149007 | B-70V-8' | 01/31/05 11:25 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 14:25 | VOA |
| D5B010149008 | B-70V-16' | 01/31/05 11:35 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 14:49 | VOA |
| [illegible]10149009 | B-106V-4' | 01/31/05 13:45 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 15:13 | VOA |
| D5B010149010 | B-106V-13' | 01/31/05 13:50 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 15:37 | VOA |
| D5B010149011 | B-111-6'' | 01/31/05 14:10 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 16:01 | VOA |
| D5B010149012 | B-111-3' | 01/31/05 14:15 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 16:26 | VOA |
| D5B010149013 | B-111-15' | 01/31/05 14:25 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 16:50 | VOA |
| D5B010149014 | B-31V-6' | 01/31/05 15:05 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 17:14 | VOA |
| | | | **8260B** | | **15** | | **14** | **02/01/05** | **12:30** | **02/15/05** | **13:42** | **VOA** |
| D5B010149015 | B-86V-3.5' | 01/31/05 15:45 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 17:38 | VOA |
| | | | **8260B** | | **15** | | **14** | **02/01/05** | **12:30** | **02/15/05** | **14:08** | **VOA** |
| D5B010149016 | B-86V-12' | 01/31/05 15:55 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 18:02 | VOA |
| | | | **8260B** | | **15** | | **14** | **02/01/05** | **12:30** | **02/15/05** | **15:25** | **VOA** |
| D5B010149017 | B-110-6" | 01/31/05 16:00 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 18:27 | VOA |
| D5B010149018 | B-110-3' | 01/31/05 16:10 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 18:51 | VOA |
| D5B010149019 | B-110-13' | 01/31/05 16:15 | | | | | | | | | | |
| | | | 8260B | | 3 | | 14 | | | 02/03/05 | 19:15 | VOA |

# Chain of Custody Record

-19.1 2/1/05

SEVERN TRENT **STL**

**Severn Trent Laboratories, Inc.**

**STL Denver**
4955 Yarrow Street
Arvada, CO 80002

74

STL-4124 (0901)

| | | | |
|---|---|---|---|
| Client: Cameron-Cole | Project Manager: Brian Martinek | Date: 1/31/05 | Chain of Custody Number: 313360 |
| Address: 5777 Central Ave, Suite 100 | Telephone Number (Area Code)/Fax Number: 303-938-5500 / 303-938-5520 | Lab Number | Page 1 of 2 |
| City: Boulder; State: CO; Zip Code: 80301 | Site Contact | Lab Contact | |
| Project Name and Location (State): CH - Wichita, KS | Carrier/Waybill Number | | |
| Contract/Purchase Order/Quote No. | | | |

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | | Analysis (Attach list if more space is needed): VOC's-8260B | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-96V-4' | 1/31/05 | 0910 | | | | X | | X | | | | | | | X | (3 ENCORES PER SAMPLE LOCATION) |
| B-96V-14' | 1/31/05 | 0920 | | | | X | | X | | | | | | | X | |
| B-100V-4' | 1/31/05 | 0935 | | | | X | | X | | | | | | | X | |
| B-100V-14' | 1/31/05 | 0940 | | | | X | | X | | | | | | | X | |
| B-103V-8' | 1/31/05 | 1045 | | | | X | | X | | | | | | | X | |
| B-103V-16' | 1/31/05 | 1100 | | | | X | | X | | | | | | | X | |
| B-70V-8' | 1/31/05 | 1125 | | | | X | | X | | | | | | | X | |
| B-70V-16' | 1/31/05 | 1135 | | | | X | | X | | | | | | | X | |
| B-106V-4' | 1/31/05 | 1345 | | | | X | | X | | | | | | | X | |
| B-106V-13' | 1/31/05 | 1350 | | | | X | | X | | | | | | | X | |
| B-111-6" | 1/31/05 | 1410 | | | | X | | X | | | | | | | X | |
| B-111-3' | 1/31/05 | 1415 | | | | X | | X | | | | | | | X | |

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Normal TAT

QC Requirements (Specify)

| | | | | | |
|---|---|---|---|---|---|
| 1. Relinquished By: [signature] | Date: 1/31/05 | Time: 1730 | 1. Received By: [signature] | Date: 2/1/05 | Time: 0915 |
| 2. Relinquished By | Date | Time | 2. Received By | Date | Time |
| 3. Relinquished By | Date | Time | 3. Received By | Date | Time |

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

# Chain of Custody Record

SEVERN TRENT **STL**

**Severn Trent Laboratories, Inc.**

**STL Denver**
4955 Yarrow Street
Arvada, CO 80002

75

STL-4124 (0901)

| | | | |
|---|---|---|---|
| Client: CAMERON-COLE | Project Manager: BRIAN MARTINEK | Date: 1/31/05 | Chain of Custody Number: 320651 |
| Address: 5777 CENTRAL AVE STE 100 | Telephone Number (Area Code)/Fax Number: 303 938 9300 / 5520 | Lab Number | Page 2 of 2 |
| City: BOULDER; State: CO; Zip Code: 80301 | Site Contact | Lab Contact | |
| Project Name and Location (State): CH - WICHITA, KS | Carrier/Waybill Number | | |
| Contract/Purchase Order/Quote No. | | | |

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | | Analysis (Attach list if more space is needed): VOC-S-8260B | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-111-15' | 1/31/05 | 1425 | | | | X | | X | | | | | | | X | 3 ENCORES PER SAMPLE LOCATION |
| B-31V-6' | 1/31/05 | 1505 | | | | X | | X | | | | | | | X | |
| B-86V-3.5' | 1/31/05 | 1545 | | | | X | | X | | | | | | | X | |
| B-86V-12' | 1/31/05 | 1555 | | | | X | | X | | | | | | | X | |
| B-110-6" | 1/31/05 | 1600 | | | | X | | X | | | | | | | X | |
| B-110-3' | 1/31/05 | 1610 | | | | X | | X | | | | | | | X | |
| B-110-13' | 1/31/05 | 1615 | | | | X | | X | | | | | | | X | |

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other NORMAL

QC Requirements (Specify)

| | | | | | |
|---|---|---|---|---|---|
| 1. Relinquished By: [signature] | Date: 1/31/05 | Time: 1730 | 1. Received By: [signature] | Date: 2/1/05 | Time: 0915 |
| 2. Relinquished By | Date | Time | 2. Received By | Date | Time |
| 3. Relinquished By | Date | Time | 3. Received By | Date | Time |

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

# ATTACHMENT 3

Laboratory Report for Groundwater and Surface Water Samples

SEVERN TRENT STL

**STL Denver**
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

# ANALYTICAL REPORT

**GROUNDWATER**

**CLEAN HARBORS WICHITA**

**Lot #: D5B020351**

**Janette Wilson**

**Cameron-Cole LLC**
**5777 Central Avenue, Suite 100**
**Boulder, CO 80301**

**cc: Will Huskie**
**cc: John Arbuthnot**

**SEVERN TRENT LABORATORIES, INC.**

**Cheryl Sklenar**
**Project Manager**

**February 21, 2005**

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- **Hold Time Report**
- **Chain-of-Custody**

# CASE NARRATIVE

| | |
|---|---|
| Client Name: | Clean Harbors Wichita |
| Project Name: | Groundwater |
| Project Number: | |
| Sample Delivery Group: | D5B020351 |
| Narrative Date: | 02/21/05 |

**Sample Receipt**

- The following report contains the analytical results for fifteen samples and one trip blank, submitted to STL Denver by Cameron-Cole, Inc., in support of the Clean Harbors Wichita GW Program. The samples were received intact, at a temperature of 5.2°C, on February 2, 2005, according to documented sample acceptance procedures. Results for the following analyses can be found in this report: GC/MS Volatiles.

- Sample Trip Blank was received with the samples, but not listed on the chain-of-custody forms. The Trip Blank was analyzed for GC/MS Volatiles Method 8260B, as instructed by the client on February 3, 2005.

**GC/MS Volatiles**

- Sample analysis revealed detected target analytes at or above Clean Harbors (Wichita)'s RLs, as detailed in the Executive Summary-Detection Highlights Report. The samples were analyzed within holding time and without incident, with the exception of the following items noted.

- Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. In some cases, due to analytes present above the linear calibration curve, samples had to be analyzed at a dilution. For samples analyzed at a dilution, the reporting limits have been adjusted relative to the dilution required.

- The laboratory generated MSD associated with QC prep batch 5045108 exhibited a spike analyte and surrogate recovery outside the QC control limits, as detailed in the Matrix Spike Sample Evaluation and Data Reports. The acceptable LCS analysis data indicated that the analytical system was operating in control; therefore, corrective action is deemed unnecessary.

These data and reporting limits are being used specifically to meet the needs of this project. All RLs are supported by STL Denver's Method Detection Limits (MDLs). Reporting limits in this report are at or above the MDL.

I certify that the data presented in this report are accurate, complete, and meets the minimum quality assurance standards in 40-CFR 136, 40-CFR 141, and/or SW846. The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. An assessment of the quality of the data, noting any exceptions, outliers, and/or problems encountered have been narrated herein.

Cheryl Sklenar
Project Manager

2/21/05
Date

# EXECUTIVE SUMMARY - Detection Highlights

D5B020351

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **SK-B92 02/01/05 08:51 001** | | | | |
| cis-1,2-Dichloroethene | 2.7 | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | 42 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 15 | 1.0 | ug/L | SW846 8260B |
| **SK-B68 02/01/05 09:31 002** | | | | |
| cis-1,2-Dichloroethene | 21 | 1.0 | ug/L | SW846 8260B |
| **WNC-32D 02/01/05 10:10 003** | | | | |
| cis-1,2-Dichloroethene | 20 | 5.0 | ug/L | SW846 8260B |
| Trichloroethene | 83 | 5.0 | ug/L | SW846 8260B |
| **DUP-A 02/01/05 10:10 004** | | | | |
| cis-1,2-Dichloroethene | 21 | 4.0 | ug/L | SW846 8260B |
| Trichloroethene | 88 | 4.0 | ug/L | SW846 8260B |
| **WND-32S 02/01/05 10:40 005** | | | | |
| Trichloroethene | 3.1 | 1.0 | ug/L | SW846 8260B |
| **MW-14 02/01/05 10:55 006** | | | | |
| cis-1,2-Dichloroethene | 3.4 | 1.0 | ug/L | SW846 8260B |
| Naphthalene | 2.6 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 9.3 | 1.0 | ug/L | SW846 8260B |
| **SK-7D 02/01/05 11:35 007** | | | | |
| cis-1,2-Dichloroethene | 42 | 6.7 | ug/L | SW846 8260B |
| Trichloroethene | 210 | 6.7 | ug/L | SW846 8260B |
| **DUP-B 02/01/05 11:35 008** | | | | |
| cis-1,2-Dichloroethene | 39 | 10 | ug/L | SW846 8260B |
| Trichloroethene | 200 | 10 | ug/L | SW846 8260B |
| **RSC-1 02/01/05 13:55 009** | | | | |
| cis-1,2-Dichloroethene | 1.3 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 18 | 1.0 | ug/L | SW846 8260B |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

D5B020351

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **SK-9D 02/01/05 14:45 011** | | | | |
| cis-1,2-Dichloroethene | 11 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 57 | 1.0 | ug/L | SW846 8260B |
| **MW-10 02/01/05 15:15 013** | | | | |
| n-Butylbenzene | 23 | 10 | ug/L | SW846 8260B |
| sec-Butylbenzene | 18 | 10 | ug/L | SW846 8260B |
| Naphthalene | 270 | 10 | ug/L | SW846 8260B |
| n-Propylbenzene | 20 | 10 | ug/L | SW846 8260B |
| Trichloroethene | 18 | 10 | ug/L | SW846 8260B |
| **MW-15 02/01/05 16:00 015** | | | | |
| cis-1,2-Dichloroethene | 2.5 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 6.8 | 1.0 | ug/L | SW846 8260B |

# METHOD / ANALYST SUMMARY

D5B020351

| ANALYTICAL METHOD | ANALYST | ANALYST ID |
|---|---|---|
| SW846 8260B | Greg Meier | 006004 |
| SW846 8260B | Heather Despres | 009250 |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

**D5B020351**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| G3M1F | 001 | SK-B92 | 02/01/05 | 08:51 |
| G3M1H | 002 | SK-B68 | 02/01/05 | 09:31 |
| G3M1J | 003 | WNC-32D | 02/01/05 | 10:10 |
| G3M1K | 004 | DUP-A | 02/01/05 | 10:10 |
| G3M1L | 005 | WND-32S | 02/01/05 | 10:40 |
| G3M1M | 006 | MW-14 | 02/01/05 | 10:55 |
| G3M1N | 007 | SK-7D | 02/01/05 | 11:35 |
| G3M1R | 008 | DUP-B | 02/01/05 | 11:35 |
| G3M1T | 009 | RSC-1 | 02/01/05 | 13:55 |
| G3M1V | 010 | MW-4 | 02/01/05 | 14:25 |
| G3M1X | 011 | SK-9D | 02/01/05 | 14:45 |
| G3M10 | 012 | FB-01 | 02/01/05 | 12:00 |
| G3M12 | 013 | MW-10 | 02/01/05 | 15:15 |
| G3M13 | 014 | MW-18 | 02/01/05 | 15:40 |
| G3M14 | 015 | MW-15 | 02/01/05 | 16:00 |
| G3M4T | 016 | TRIP BLANK | 02/01/05 | |

**NOTE(S):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Cameron-Cole LLC

Client Sample ID: SK-B92

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-001 **Work Order #...:** G3M1F1AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 08:51 **Date Received..:** 02/02/05
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/10/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 20:01
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **2.7** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

(Continued on next page)

**Cameron-Cole LLC**

**Client Sample ID: SK-B92**

**GC/MS Volatiles**

**Lot-Sample #...:** D5B020351-001 **Work Order #...:** G3M1F1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| **Tetrachloroethene** | **42** | **1.0** | **ug/L** |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **15** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 96 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 84 | (62 - 128) |
| 4-Bromofluorobenzene | 91 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-B68

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-002 **Work Order #...:** G3M1H1AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 09:31 **Date Received..:** 02/02/05
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/10/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 20:21
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **21** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-B68

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-002 **Work Order #...:** G3M1H1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 83 | (62 - 128) |
| 4-Bromofluorobenzene | 94 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: WNC-32D

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-003 **Work Order #...:** G3M1J1AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 10:10 **Date Received..:** 02/02/05
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/10/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 20:42
**Dilution Factor:** 5

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/L |
| Bromobenzene | ND | 5.0 | ug/L |
| Bromochloromethane | ND | 5.0 | ug/L |
| Bromodichloromethane | ND | 5.0 | ug/L |
| Bromoform | ND | 5.0 | ug/L |
| Bromomethane | ND | 10 | ug/L |
| n-Butylbenzene | ND | 5.0 | ug/L |
| sec-Butylbenzene | ND | 5.0 | ug/L |
| tert-Butylbenzene | ND | 5.0 | ug/L |
| Carbon tetrachloride | ND | 5.0 | ug/L |
| Chlorobenzene | ND | 5.0 | ug/L |
| Chlorodibromomethane | ND | 5.0 | ug/L |
| Chloroethane | ND | 10 | ug/L |
| Chloroform | ND | 5.0 | ug/L |
| Chloromethane | ND | 10 | ug/L |
| 2-Chlorotoluene | ND | 5.0 | ug/L |
| 4-Chlorotoluene | ND | 5.0 | ug/L |
| Dibromomethane | ND | 5.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L |
| Dichlorodifluoromethane | ND | 10 | ug/L |
| 1,1-Dichloroethane | ND | 5.0 | ug/L |
| 1,2-Dichloroethane | ND | 5.0 | ug/L |
| 1,1-Dichloroethene | ND | 5.0 | ug/L |
| **cis-1,2-Dichloroethene** | **20** | **5.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/L |
| 1,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,3-Dichloropropane | ND | 5.0 | ug/L |
| 2,2-Dichloropropane | ND | 25 | ug/L |
| 1,1-Dichloropropene | ND | 5.0 | ug/L |
| Ethylbenzene | ND | 5.0 | ug/L |
| Trichlorofluoromethane | ND | 10 | ug/L |
| Hexachlorobutadiene | ND | 5.0 | ug/L |
| Isopropylbenzene | ND | 5.0 | ug/L |
| p-Isopropyltoluene | ND | 5.0 | ug/L |
| Methylene chloride | ND | 5.0 | ug/L |
| Naphthalene | ND | 5.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: WNC-32D

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-003 **Work Order #...:** G3M1J1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/L |
| Styrene | ND | 5.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L |
| Tetrachloroethene | ND | 5.0 | ug/L |
| Toluene | ND | 5.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L |
| **Trichloroethene** | **83** | **5.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/L |
| Vinyl chloride | ND | 5.0 | ug/L |
| o-Xylene | ND | 5.0 | ug/L |
| m-Xylene & p-Xylene | ND | 10 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 99 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 87 | (62 - 128) |
| 4-Bromofluorobenzene | 92 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: DUP-A

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-004 **Work Order #...:** G3M1K1AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 10:10 **Date Received..:** 02/02/05
**Prep Date.....:** 02/13/05 **Analysis Date..:** 02/13/05
**Prep Batch #...:** 5045108 **Analysis Time..:** 15:56
**Dilution Factor:** 4

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 4.0 | ug/L |
| Bromobenzene | ND | 4.0 | ug/L |
| Bromochloromethane | ND | 4.0 | ug/L |
| Bromodichloromethane | ND | 4.0 | ug/L |
| Bromoform | ND | 4.0 | ug/L |
| Bromomethane | ND | 8.0 | ug/L |
| n-Butylbenzene | ND | 4.0 | ug/L |
| sec-Butylbenzene | ND | 4.0 | ug/L |
| tert-Butylbenzene | ND | 4.0 | ug/L |
| Carbon tetrachloride | ND | 4.0 | ug/L |
| Chlorobenzene | ND | 4.0 | ug/L |
| Chlorodibromomethane | ND | 4.0 | ug/L |
| Chloroethane | ND | 8.0 | ug/L |
| Chloroform | ND | 4.0 | ug/L |
| Chloromethane | ND | 8.0 | ug/L |
| 2-Chlorotoluene | ND | 4.0 | ug/L |
| 4-Chlorotoluene | ND | 4.0 | ug/L |
| Dibromomethane | ND | 4.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 4.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 4.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 4.0 | ug/L |
| Dichlorodifluoromethane | ND | 8.0 | ug/L |
| 1,1-Dichloroethane | ND | 4.0 | ug/L |
| 1,2-Dichloroethane | ND | 4.0 | ug/L |
| 1,1-Dichloroethene | ND | 4.0 | ug/L |
| **cis-1,2-Dichloroethene** | **21** | **4.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/L |
| 1,2-Dichloropropane | ND | 4.0 | ug/L |
| 1,3-Dichloropropane | ND | 4.0 | ug/L |
| 2,2-Dichloropropane | ND | 20 | ug/L |
| 1,1-Dichloropropene | ND | 4.0 | ug/L |
| Ethylbenzene | ND | 4.0 | ug/L |
| Trichlorofluoromethane | ND | 8.0 | ug/L |
| Hexachlorobutadiene | ND | 4.0 | ug/L |
| Isopropylbenzene | ND | 4.0 | ug/L |
| p-Isopropyltoluene | ND | 4.0 | ug/L |
| Methylene chloride | ND | 4.0 | ug/L |
| Naphthalene | ND | 4.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: DUP-A

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-004 **Work Order #...:** G3M1K1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 4.0 | ug/L |
| Styrene | ND | 4.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 4.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 4.0 | ug/L |
| Tetrachloroethene | ND | 4.0 | ug/L |
| Toluene | ND | 4.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 4.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 4.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 4.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 4.0 | ug/L |
| **Trichloroethene** | **88** | **4.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 4.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 4.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 4.0 | ug/L |
| Vinyl chloride | ND | 4.0 | ug/L |
| o-Xylene | ND | 4.0 | ug/L |
| m-Xylene & p-Xylene | ND | 8.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 8.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 4.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 105 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 102 | (62 - 128) |
| 4-Bromofluorobenzene | 99 | (78 - 118) |
| Toluene-d8 | 107 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: WND-32S

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-005 **Work Order #...:** G3M1L1AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 10:40 **Date Received..:** 02/02/05
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/10/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 22:05
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: WND-32S

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-005 **Work Order #...:** G3M1L1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **3.1** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 96 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 85 | (62 - 128) |
| 4-Bromofluorobenzene | 93 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: MW-14

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-006 **Work Order #...:** G3M1M1AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 10:55 **Date Received..:** 02/02/05
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/10/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 22:26
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **3.4** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| **Naphthalene** | **2.6** | **1.0** | **ug/L** |

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Cameron-Cole LLC

Client Sample ID: MW-14

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-006 **Work Order #...:** G3M1M1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **9.3** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 95 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 81 | (62 - 128) |
| 4-Bromofluorobenzene | 98 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-7D

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-007 **Work Order #...:** G3M1N1AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 11:35 **Date Received..:** 02/02/05
**Prep Date.....:** 02/13/05 **Analysis Date..:** 02/13/05
**Prep Batch #...:** 5045108 **Analysis Time..:** 16:21
**Dilution Factor:** 6.66

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 6.7 | ug/L |
| Bromobenzene | ND | 6.7 | ug/L |
| Bromochloromethane | ND | 6.7 | ug/L |
| Bromodichloromethane | ND | 6.7 | ug/L |
| Bromoform | ND | 6.7 | ug/L |
| Bromomethane | ND | 13 | ug/L |
| n-Butylbenzene | ND | 6.7 | ug/L |
| sec-Butylbenzene | ND | 6.7 | ug/L |
| tert-Butylbenzene | ND | 6.7 | ug/L |
| Carbon tetrachloride | ND | 6.7 | ug/L |
| Chlorobenzene | ND | 6.7 | ug/L |
| Chlorodibromomethane | ND | 6.7 | ug/L |
| Chloroethane | ND | 13 | ug/L |
| Chloroform | ND | 6.7 | ug/L |
| Chloromethane | ND | 13 | ug/L |
| 2-Chlorotoluene | ND | 6.7 | ug/L |
| 4-Chlorotoluene | ND | 6.7 | ug/L |
| Dibromomethane | ND | 6.7 | ug/L |
| 1,2-Dichlorobenzene | ND | 6.7 | ug/L |
| 1,3-Dichlorobenzene | ND | 6.7 | ug/L |
| 1,4-Dichlorobenzene | ND | 6.7 | ug/L |
| Dichlorodifluoromethane | ND | 13 | ug/L |
| 1,1-Dichloroethane | ND | 6.7 | ug/L |
| 1,2-Dichloroethane | ND | 6.7 | ug/L |
| 1,1-Dichloroethene | ND | 6.7 | ug/L |
| **cis-1,2-Dichloroethene** | **42** | **6.7** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 3.3 | ug/L |
| 1,2-Dichloropropane | ND | 6.7 | ug/L |
| 1,3-Dichloropropane | ND | 6.7 | ug/L |
| 2,2-Dichloropropane | ND | 33 | ug/L |
| 1,1-Dichloropropene | ND | 6.7 | ug/L |
| Ethylbenzene | ND | 6.7 | ug/L |
| Trichlorofluoromethane | ND | 13 | ug/L |
| Hexachlorobutadiene | ND | 6.7 | ug/L |
| Isopropylbenzene | ND | 6.7 | ug/L |
| p-Isopropyltoluene | ND | 6.7 | ug/L |
| Methylene chloride | ND | 6.7 | ug/L |
| Naphthalene | ND | 6.7 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-7D

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-007 **Work Order #...:** G3M1N1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 6.7 | ug/L |
| Styrene | ND | 6.7 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 6.7 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 6.7 | ug/L |
| Tetrachloroethene | ND | 6.7 | ug/L |
| Toluene | ND | 6.7 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 6.7 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 6.7 | ug/L |
| 1,1,1-Trichloroethane | ND | 6.7 | ug/L |
| 1,1,2-Trichloroethane | ND | 6.7 | ug/L |
| **Trichloroethene** | **210** | **6.7** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 6.7 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 6.7 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 6.7 | ug/L |
| Vinyl chloride | ND | 6.7 | ug/L |
| o-Xylene | ND | 6.7 | ug/L |
| m-Xylene & p-Xylene | ND | 13 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 13 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 6.7 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 111 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 98 | (62 - 128) |
| 4-Bromofluorobenzene | 101 | (78 - 118) |
| Toluene-d8 | 110 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: DUP-B

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-008 **Work Order #...:** G3M1R1AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 11:35 **Date Received..:** 02/02/05
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/10/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 23:08
**Dilution Factor:** 10

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 10 | ug/L |
| Bromobenzene | ND | 10 | ug/L |
| Bromochloromethane | ND | 10 | ug/L |
| Bromodichloromethane | ND | 10 | ug/L |
| Bromoform | ND | 10 | ug/L |
| Bromomethane | ND | 20 | ug/L |
| n-Butylbenzene | ND | 10 | ug/L |
| sec-Butylbenzene | ND | 10 | ug/L |
| tert-Butylbenzene | ND | 10 | ug/L |
| Carbon tetrachloride | ND | 10 | ug/L |
| Chlorobenzene | ND | 10 | ug/L |
| Chlorodibromomethane | ND | 10 | ug/L |
| Chloroethane | ND | 20 | ug/L |
| Chloroform | ND | 10 | ug/L |
| Chloromethane | ND | 20 | ug/L |
| 2-Chlorotoluene | ND | 10 | ug/L |
| 4-Chlorotoluene | ND | 10 | ug/L |
| Dibromomethane | ND | 10 | ug/L |
| 1,2-Dichlorobenzene | ND | 10 | ug/L |
| 1,3-Dichlorobenzene | ND | 10 | ug/L |
| 1,4-Dichlorobenzene | ND | 10 | ug/L |
| Dichlorodifluoromethane | ND | 20 | ug/L |
| 1,1-Dichloroethane | ND | 10 | ug/L |
| 1,2-Dichloroethane | ND | 10 | ug/L |
| 1,1-Dichloroethene | ND | 10 | ug/L |
| **cis-1,2-Dichloroethene** | **39** | **10** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L |
| 1,2-Dichloropropane | ND | 10 | ug/L |
| 1,3-Dichloropropane | ND | 10 | ug/L |
| 2,2-Dichloropropane | ND | 50 | ug/L |
| 1,1-Dichloropropene | ND | 10 | ug/L |
| Ethylbenzene | ND | 10 | ug/L |
| Trichlorofluoromethane | ND | 20 | ug/L |
| Hexachlorobutadiene | ND | 10 | ug/L |
| Isopropylbenzene | ND | 10 | ug/L |
| p-Isopropyltoluene | ND | 10 | ug/L |
| Methylene chloride | ND | 10 | ug/L |
| Naphthalene | ND | 10 | ug/L |

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Cameron-Cole LLC

Client Sample ID: DUP-B

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-008 **Work Order #...:** G3M1R1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 10 | ug/L |
| Styrene | ND | 10 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 10 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 10 | ug/L |
| Tetrachloroethene | ND | 10 | ug/L |
| Toluene | ND | 10 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 10 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 10 | ug/L |
| 1,1,1-Trichloroethane | ND | 10 | ug/L |
| 1,1,2-Trichloroethane | ND | 10 | ug/L |
| **Trichloroethene** | **200** | **10** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 10 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 10 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 10 | ug/L |
| Vinyl chloride | ND | 10 | ug/L |
| o-Xylene | ND | 10 | ug/L |
| m-Xylene & p-Xylene | ND | 20 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 20 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 10 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 94 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 82 | (62 - 128) |
| 4-Bromofluorobenzene | 93 | (78 - 118) |
| Toluene-d8 | 100 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: RSC-1

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-009 **Work Order #...:** G3M1T1AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 13:55 **Date Received..:** 02/02/05
**Prep Date.....:** 02/13/05 **Analysis Date..:** 02/13/05
**Prep Batch #...:** 5045108 **Analysis Time..:** 16:45
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **1.3** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: RSC-1

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-009 **Work Order #...:** G3M1T1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **18** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 107 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 110 | (62 - 128) |
| 4-Bromofluorobenzene | 100 | (78 - 118) |
| Toluene-d8 | 104 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: MW-11

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-010 **Work Order #...:** G3M1V1AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 14:25 **Date Received..:** 02/02/05
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/10/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 23:49
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: MW-11

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-010 **Work Order #...:** G3M1V1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 93 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 81 | (62 - 128) |
| 4-Bromofluorobenzene | 95 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-9D

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-011 **Work Order #...:** G3M1X1AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 14:45 **Date Received..:** 02/02/05
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/11/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 00:10
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **11** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-9D

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-011 **Work Order #...:** G3M1X1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **57** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 93 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 80 | (62 - 128) |
| 4-Bromofluorobenzene | 95 | (78 - 118) |
| Toluene-d8 | 103 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: FB-01

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-012 **Work Order #...:** G3M101AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 12:00 **Date Received..:** 02/02/05
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/11/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 00:31
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: FB-01

GC/MS Volatiles

Lot-Sample #...: D5B020351-012 Work Order #...: G3M101AA Matrix.....: WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 93 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 78 | (62 - 128) |
| 4-Bromofluorobenzene | 95 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: MW-10

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-013 **Work Order #...:** G3M121AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 15:15 **Date Received..:** 02/02/05
**Prep Date.....:** 02/13/05 **Analysis Date..:** 02/13/05
**Prep Batch #...:** 5045108 **Analysis Time..:** 17:10
**Dilution Factor:** 10

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 10 | ug/L |
| Bromobenzene | ND | 10 | ug/L |
| Bromochloromethane | ND | 10 | ug/L |
| Bromodichloromethane | ND | 10 | ug/L |
| Bromoform | ND | 10 | ug/L |
| Bromomethane | ND | 20 | ug/L |
| **n-Butylbenzene** | **23** | **10** | **ug/L** |
| **sec-Butylbenzene** | **18** | **10** | **ug/L** |
| tert-Butylbenzene | ND | 10 | ug/L |
| Carbon tetrachloride | ND | 10 | ug/L |
| Chlorobenzene | ND | 10 | ug/L |
| Chlorodibromomethane | ND | 10 | ug/L |
| Chloroethane | ND | 20 | ug/L |
| Chloroform | ND | 10 | ug/L |
| Chloromethane | ND | 20 | ug/L |
| 2-Chlorotoluene | ND | 10 | ug/L |
| 4-Chlorotoluene | ND | 10 | ug/L |
| Dibromomethane | ND | 10 | ug/L |
| 1,2-Dichlorobenzene | ND | 10 | ug/L |
| 1,3-Dichlorobenzene | ND | 10 | ug/L |
| 1,4-Dichlorobenzene | ND | 10 | ug/L |
| Dichlorodifluoromethane | ND | 20 | ug/L |
| 1,1-Dichloroethane | ND | 10 | ug/L |
| 1,2-Dichloroethane | ND | 10 | ug/L |
| 1,1-Dichloroethene | ND | 10 | ug/L |
| cis-1,2-Dichloroethene | ND | 10 | ug/L |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L |
| 1,2-Dichloropropane | ND | 10 | ug/L |
| 1,3-Dichloropropane | ND | 10 | ug/L |
| 2,2-Dichloropropane | ND | 50 | ug/L |
| 1,1-Dichloropropene | ND | 10 | ug/L |
| Ethylbenzene | ND | 10 | ug/L |
| Trichlorofluoromethane | ND | 20 | ug/L |
| Hexachlorobutadiene | ND | 10 | ug/L |
| Isopropylbenzene | ND | 10 | ug/L |
| p-Isopropyltoluene | ND | 10 | ug/L |
| Methylene chloride | ND | 10 | ug/L |
| **Naphthalene** | **270** | **10** | **ug/L** |

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Cameron-Cole LLC

Client Sample ID: MW-10

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-013 **Work Order #...:** G3M121AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **n-Propylbenzene** | **20** | **10** | **ug/L** |
| Styrene | ND | 10 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 10 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 10 | ug/L |
| Tetrachloroethene | ND | 10 | ug/L |
| Toluene | ND | 10 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 10 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 10 | ug/L |
| 1,1,1-Trichloroethane | ND | 10 | ug/L |
| 1,1,2-Trichloroethane | ND | 10 | ug/L |
| **Trichloroethene** | **18** | **10** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 10 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 10 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 10 | ug/L |
| Vinyl chloride | ND | 10 | ug/L |
| o-Xylene | ND | 10 | ug/L |
| m-Xylene & p-Xylene | ND | 20 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 20 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 10 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 108 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 103 | (62 - 128) |
| 4-Bromofluorobenzene | 112 | (78 - 118) |
| Toluene-d8 | 100 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: MW-18

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-014 **Work Order #...:** G3M131AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 15:40 **Date Received..:** 02/02/05
**Prep Date.....:** 02/13/05 **Analysis Date..:** 02/13/05
**Prep Batch #...:** 5045108 **Analysis Time..:** 17:35
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: MW-18

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-014 **Work Order #...:** G3M131AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 105 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 99 | (62 - 128) |
| 4-Bromofluorobenzene | 87 | (78 - 118) |
| Toluene-d8 | 84 | (77 - 117) |

**Cameron-Cole LLC**

**Client Sample ID: MW-15**

**GC/MS Volatiles**

**Lot-Sample #...:** D5B020351-015 **Work Order #...:** G3M141AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 16:00 **Date Received..:** 02/02/05
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/11/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 01:33
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **2.5** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: MW-15

GC/MS Volatiles

Lot-Sample #...: D5B020351-015 Work Order #...: G3M141AA Matrix.....: WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **6.8** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 92 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 81 | (62 - 128) |
| 4-Bromofluorobenzene | 100 | (78 - 118) |
| Toluene-d8 | 103 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: TRIP BLANK

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-016 **Work Order #...:** G3M4T1AA **Matrix.....:** WATER
**Date Sampled...:** 02/01/05 **Date Received..:** 02/02/05
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/11/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 01:53
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: TRIP BLANK

GC/MS Volatiles

**Lot-Sample #...:** D5B020351-016 **Work Order #...:** G3M4T1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 90 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 74 | (62 - 128) |
| 4-Bromofluorobenzene | 97 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |

# QC DATA ASSOCIATION SUMMARY

**D5B020351**

Sample Preparation and Analysis Control Numbers

| SAMPLE# | MATRIX | ANALYTICAL METHOD | LEACH BATCH # | PREP BATCH # | MS RUN# |
|---|---|---|---|---|---|
| 001 | WATER | SW846 8260B | | 5042487 | 5042292 |
| 002 | WATER | SW846 8260B | | 5042487 | 5042292 |
| 003 | WATER | SW846 8260B | | 5042487 | 5042292 |
| 004 | WATER | SW846 8260B | | 5045108 | 5045080 |
| 005 | WATER | SW846 8260B | | 5042487 | 5042292 |
| 006 | WATER | SW846 8260B | | 5042487 | 5042292 |
| 007 | WATER | SW846 8260B | | 5045108 | 5045080 |
| 008 | WATER | SW846 8260B | | 5042487 | 5042292 |
| 009 | WATER | SW846 8260B | | 5045108 | 5045080 |
| 010 | WATER | SW846 8260B | | 5042487 | 5042292 |
| 011 | WATER | SW846 8260B | | 5042487 | 5042292 |
| 012 | WATER | SW846 8260B | | 5042487 | 5042292 |
| 013 | WATER | SW846 8260B | | 5045108 | 5045080 |
| 014 | WATER | SW846 8260B | | 5045108 | 5045080 |
| 015 | WATER | SW846 8260B | | 5042487 | 5042292 |
| 016 | WATER | SW846 8260B | | 5042487 | 5042292 |

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B020351 **Work Order #...:** G4A741AA **Matrix.....:** WATER
**MB Lot-Sample #:** D5B110000-487

**Prep Date.....:** 02/10/05 **Analysis Time..:** 18:42
**Analysis Date..:** 02/10/05 **Prep Batch #...:** 5042487
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Benzene | ND | 1.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Naphthalene | ND | 1.0 | ug/L | SW846 8260B |
| Toluene | ND | 1.0 | ug/L | SW846 8260B |
| Bromobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Bromochloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromoform | ND | 1.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 2.0 | ug/L | SW846 8260B |
| n-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| sec-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| tert-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 1.0 | ug/L | SW846 8260B |
| Chlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Chlorodibromomethane | ND | 1.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 2.0 | ug/L | SW846 8260B |
| Chloroform | ND | 1.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 2.0 | ug/L | SW846 8260B |
| 2-Chlorotoluene | ND | 1.0 | ug/L | SW846 8260B |
| 4-Chlorotoluene | ND | 1.0 | ug/L | SW846 8260B |
| Dibromomethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 2.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 2,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 2.0 | ug/L | SW846 8260B |
| Hexachlorobutadiene | ND | 1.0 | ug/L | SW846 8260B |
| Isopropylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| p-Isopropyltoluene | ND | 1.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 1.0 | ug/L | SW846 8260B |
| n-Propylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Styrene | ND | 1.0 | ug/L | SW846 8260B |

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## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B020351 **Work Order #...:** G4A741AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 1.0 | ug/L | SW846 8260B |
| o-Xylene | ND | 1.0 | ug/L | SW846 8260B |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L | SW846 8260B |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L | SW846 8260B |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 96 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 87 | (62 - 128) |
| 4-Bromofluorobenzene | 94 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B020351 **Work Order #...:** G4DLH1AA **Matrix.....:** WATER
**MB Lot-Sample #:** D5B140000-108

**Prep Date.....:** 02/13/05 **Analysis Time..:** 12:38
**Analysis Date..:** 02/13/05 **Prep Batch #...:** 5045108
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Benzene | ND | 1.0 | ug/L | SW846 8260B |
| Bromobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Bromochloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromoform | ND | 1.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 2.0 | ug/L | SW846 8260B |
| n-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| sec-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| tert-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 1.0 | ug/L | SW846 8260B |
| Chlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Chlorodibromomethane | ND | 1.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 2.0 | ug/L | SW846 8260B |
| Chloroform | ND | 1.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 2.0 | ug/L | SW846 8260B |
| 2-Chlorotoluene | ND | 1.0 | ug/L | SW846 8260B |
| 4-Chlorotoluene | ND | 1.0 | ug/L | SW846 8260B |
| Dibromomethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 2.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 2,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 2.0 | ug/L | SW846 8260B |
| Hexachlorobutadiene | ND | 1.0 | ug/L | SW846 8260B |
| Isopropylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| p-Isopropyltoluene | ND | 1.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 1.0 | ug/L | SW846 8260B |
| Naphthalene | ND | 1.0 | ug/L | SW846 8260B |
| n-Propylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Styrene | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |

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## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B020351 **Work Order #...:** G4DLH1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 1.0 | ug/L | SW846 8260B |
| Toluene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 1.0 | ug/L | SW846 8260B |
| o-Xylene | ND | 1.0 | ug/L | SW846 8260B |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L | SW846 8260B |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L | SW846 8260B |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 106 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 97 | (62 - 128) |
| 4-Bromofluorobenzene | 103 | (78 - 118) |
| Toluene-d8 | 109 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B020351 **Work Order #...:** G4A741AC **Matrix.....:** WATER
**LCS Lot-Sample#:** D5B110000-487
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/10/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 18:21
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **1,1-Dichloroethene** | **119** | **(66 - 132)** | **SW846 8260B** |
| **Benzene** | **97** | **(75 - 120)** | **SW846 8260B** |
| **Chlorobenzene** | **103** | **(78 - 118)** | **SW846 8260B** |
| **Toluene** | **103** | **(78 - 118)** | **SW846 8260B** |
| **Trichloroethene** | **100** | **(79 - 122)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 88 | (62 - 128) |
| 4-Bromofluorobenzene | 90 | (78 - 118) |
| Toluene-d8 | 100 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B020351 **Work Order #...:** G4A741AC **Matrix.....:** WATER
**LCS Lot-Sample#:** D5B110000-487
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/10/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 18:21
**Dilution Factor:** 1

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **10.0** | **11.9** | **ug/L** | **119** | **SW846 8260B** |
| **Benzene** | **10.0** | **9.70** | **ug/L** | **97** | **SW846 8260B** |
| **Chlorobenzene** | **10.0** | **10.3** | **ug/L** | **103** | **SW846 8260B** |
| **Toluene** | **10.0** | **10.3** | **ug/L** | **103** | **SW846 8260B** |
| **Trichloroethene** | **10.0** | **9.97** | **ug/L** | **100** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 88 | (62 - 128) |
| 4-Bromofluorobenzene | 90 | (78 - 118) |
| Toluene-d8 | 100 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B020351 **Work Order #...:** G4DLH1AC **Matrix.....:** WATER
**LCS Lot-Sample#:** D5B140000-108
**Prep Date.....:** 02/13/05 **Analysis Date..:** 02/13/05
**Prep Batch #...:** 5045108 **Analysis Time..:** 11:49
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **1,1-Dichloroethene** | **103** | **(66 - 132)** | **SW846 8260B** |
| **Benzene** | **98** | **(75 - 120)** | **SW846 8260B** |
| **Chlorobenzene** | **111** | **(78 - 118)** | **SW846 8260B** |
| **Toluene** | **109** | **(78 - 118)** | **SW846 8260B** |
| **Trichloroethene** | **109** | **(79 - 122)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 101 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 96 | (62 - 128) |
| 4-Bromofluorobenzene | 105 | (78 - 118) |
| Toluene-d8 | 105 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

**Client Lot #...:** D5B020351 **Work Order #...:** G4DLH1AC **Matrix.....:** WATER
**LCS Lot-Sample#:** D5B140000-108
**Prep Date.....:** 02/13/05 **Analysis Date..:** 02/13/05
**Prep Batch #...:** 5045108 **Analysis Time..:** 11:49
**Dilution Factor:** 1

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **10.0** | **10.3** | **ug/L** | **103** | **SW846 8260B** |
| **Benzene** | **10.0** | **9.83** | **ug/L** | **98** | **SW846 8260B** |
| **Chlorobenzene** | **10.0** | **11.1** | **ug/L** | **111** | **SW846 8260B** |
| **Toluene** | **10.0** | **10.9** | **ug/L** | **109** | **SW846 8260B** |
| **Trichloroethene** | **10.0** | **10.9** | **ug/L** | **109** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 101 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 96 | (62 - 128) |
| 4-Bromofluorobenzene | 105 | (78 - 118) |
| Toluene-d8 | 105 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B020351
**MS Lot-Sample #:** D5B020351-003
**Date Sampled...:** 02/01/05 10:10
**Prep Date.....:** 02/10/05
**Prep Batch #...:** 5042487
**Dilution Factor:** 5

**Work Order #...:** G3M1J1AC-MS
G3M1J1AD-MSD
**Date Received..:** 02/02/05
**Analysis Date..:** 02/10/05
**Analysis Time..:** 21:03

**Matrix.....:** WATER

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **108** | **(66 - 132)** | | | **SW846 8260B** |
| | **110** | **(66 - 132)** | **2.0** | **(0-26)** | **SW846 8260B** |
| **Benzene** | **95** | **(75 - 120)** | | | **SW846 8260B** |
| | **95** | **(75 - 120)** | **0.10** | **(0-21)** | **SW846 8260B** |
| **Chlorobenzene** | **105** | **(78 - 118)** | | | **SW846 8260B** |
| | **106** | **(78 - 118)** | **1.6** | **(0-20)** | **SW846 8260B** |
| **Toluene** | **103** | **(78 - 118)** | | | **SW846 8260B** |
| | **105** | **(78 - 118)** | **1.6** | **(0-22)** | **SW846 8260B** |
| **Trichloroethene** | **97** | **(79 - 122)** | | | **SW846 8260B** |
| | **98** | **(79 - 122)** | **0.34** | **(0-23)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| | 98 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 85 | (62 - 128) |
| | 85 | (62 - 128) |
| 4-Bromofluorobenzene | 93 | (78 - 118) |
| | 96 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |
| | 103 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B020351 **Work Order #...:** G3M1J1AC-MS **Matrix.....:** WATER
**MS Lot-Sample #:** D5B020351-003 G3M1J1AD-MSD
**Date Sampled...:** 02/01/05 10:10 **Date Received..:** 02/02/05
**Prep Date.....:** 02/10/05 **Analysis Date..:** 02/10/05
**Prep Batch #...:** 5042487 **Analysis Time..:** 21:03
**Dilution Factor:** 5

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **ND** | **50.0** | **54.0** | **ug/L** | **108** | | **SW846 8260B** |
| | **ND** | **50.0** | **55.1** | **ug/L** | **110** | **2.0** | **SW846 8260B** |
| **Benzene** | **ND** | **50.0** | **47.5** | **ug/L** | **95** | | **SW846 8260B** |
| | **ND** | **50.0** | **47.5** | **ug/L** | **95** | **0.10** | **SW846 8260B** |
| **Chlorobenzene** | **ND** | **50.0** | **52.3** | **ug/L** | **105** | | **SW846 8260B** |
| | **ND** | **50.0** | **53.1** | **ug/L** | **106** | **1.6** | **SW846 8260B** |
| **Toluene** | **ND** | **50.0** | **51.4** | **ug/L** | **103** | | **SW846 8260B** |
| | **ND** | **50.0** | **52.3** | **ug/L** | **105** | **1.6** | **SW846 8260B** |
| **Trichloroethene** | **83** | **50.0** | **132** | **ug/L** | **97** | | **SW846 8260B** |
| | **83** | **50.0** | **132** | **ug/L** | **98** | **0.34** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| | 98 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 85 | (62 - 128) |
| | 85 | (62 - 128) |
| 4-Bromofluorobenzene | 93 | (78 - 118) |
| | 96 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |
| | 103 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B020351 **Work Order #...:** G30771AC-MS **Matrix.....:** WATER
**MS Lot-Sample #:** D5B080187-002 G30771AD-MSD
**Date Sampled...:** 02/07/05 13:30 **Date Received..:** 02/08/05
**Prep Date.....:** 02/13/05 **Analysis Date..:** 02/13/05
**Prep Batch #...:** 5045108 **Analysis Time..:** 13:52
**Dilution Factor:** 10

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **117** | **(66 - 132)** | | | **SW846 8260B** |
| | **120** | **(66 - 132)** | **2.9** | **(0-26)** | **SW846 8260B** |
| **Benzene** | **106** | **(75 - 120)** | | | **SW846 8260B** |
| | **106** | **(75 - 120)** | **0.40** | **(0-21)** | **SW846 8260B** |
| **Chlorobenzene** | **105** | **(78 - 118)** | | | **SW846 8260B** |
| | **112** | **(78 - 118)** | **6.6** | **(0-20)** | **SW846 8260B** |
| **Toluene** | **102** | **(78 - 118)** | | | **SW846 8260B** |
| | **123 a** | **(78 - 118)** | **19** | **(0-22)** | **SW846 8260B** |
| **Trichloroethene** | **113** | **(79 - 122)** | | | **SW846 8260B** |
| | **111** | **(79 - 122)** | **1.4** | **(0-23)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 108 | (73 - 118) |
| | 111 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 106 | (62 - 128) |
| | 112 | (62 - 128) |
| 4-Bromofluorobenzene | 100 | (78 - 118) |
| | 92 | (78 - 118) |
| Toluene-d8 | 109 | (77 - 117) |
| | 124 * | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B020351 **Work Order #...:** G30771AC-MS **Matrix.....:** WATER
**MS Lot-Sample #:** D5B080187-002 G30771AD-MSD
**Date Sampled...:** 02/07/05 13:30 **Date Received..:** 02/08/05
**Prep Date.....:** 02/13/05 **Analysis Date..:** 02/13/05
**Prep Batch #...:** 5045108 **Analysis Time..:** 13:52
**Dilution Factor:** 10

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **ND** | **100** | **117** | **ug/L** | **117** | | **SW846 8260B** |
| | **ND** | **100** | **120** | **ug/L** | **120** | **2.9** | **SW846 8260B** |
| **Benzene** | **ND** | **100** | **106** | **ug/L** | **106** | | **SW846 8260B** |
| | **ND** | **100** | **106** | **ug/L** | **106** | **0.40** | **SW846 8260B** |
| **Chlorobenzene** | **ND** | **100** | **105** | **ug/L** | **105** | | **SW846 8260B** |
| | **ND** | **100** | **112** | **ug/L** | **112** | **6.6** | **SW846 8260B** |
| **Toluene** | **ND** | **100** | **102** | **ug/L** | **102** | | **SW846 8260B** |
| | **ND** | **100** | **123** | **ug/L** | **123 a** | **19** | **SW846 8260B** |
| **Trichloroethene** | **ND** | **100** | **113** | **ug/L** | **113** | | **SW846 8260B** |
| | **ND** | **100** | **111** | **ug/L** | **111** | **1.4** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 108 | (73 - 118) |
| | 111 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 106 | (62 - 128) |
| | 112 | (62 - 128) |
| 4-Bromofluorobenzene | 100 | (78 - 118) |
| | 92 | (78 - 118) |
| Toluene-d8 | 109 | (77 - 117) |
| | 124 * | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

# HOLD TIME REPORT

Cameron-Cole LLC

Wichita, KS

HOLD TIME REPORT

Lab: GCMS VOA

| Lab ID # | Well ID | Collection Date | Method | Ext Dif | Ana Dif | Ext Hold | Ana Hold | Extraction Date | Analysis Date | Method Description |
|---|---|---|---|---|---|---|---|---|---|---|
| D5B020351001 | SK-B92 | 02/01/05 08:51 | 8260B | | 9 | | 14 | | 02/10/05 20:01 | VOA |
| D5B020351002 | SK-B68 | 02/01/05 09:31 | 8260B | | 9 | | 14 | | 02/10/05 20:21 | VOA |
| D5B020351003 | WNC-32D | 02/01/05 10:10 | 8260B | | 9 | | 14 | | 02/10/05 20:42 | VOA |
| D5B020351004 | DUP-A | 02/01/05 10:10 | 8260B | | 12 | | 14 | | 02/13/05 15:56 | VOA |
| D5B020351005 | WND-32S | 02/01/05 10:40 | 8260B | | 9 | | 14 | | 02/10/05 22:05 | VOA |
| D5B020351006 | MW-14 | 02/01/05 10:55 | 8260B | | 9 | | 14 | | 02/10/05 22:26 | VOA |
| D5B020351007 | SK-7D | 02/01/05 11:35 | 8260B | | 12 | | 14 | | 02/13/05 16:21 | VOA |
| D5B020351008 | DUP-B | 02/01/05 11:35 | 8260B | | 9 | | 14 | | 02/10/05 23:08 | VOA |
| D5B020351009 | RSC-1 | 02/01/05 13:55 | 8260B | | 12 | | 14 | | 02/13/05 16:45 | VOA |
| D5B020351010 | MW-11 | 02/01/05 14:25 | 8260B | | 9 | | 14 | | 02/10/05 23:49 | VOA |
| D5B020351011 | SK-9D | 02/01/05 14:45 | 8260B | | 10 | | 14 | | 02/11/05 00:10 | VOA |
| D5B020351012 | FB-01 | 02/01/05 12:00 | 8260B | | 10 | | 14 | | 02/11/05 00:31 | VOA |
| D5B020351013 | MW-10 | 02/01/05 15:15 | 8260B | | 12 | | 14 | | 02/13/05 17:10 | VOA |
| D5B020351014 | MW-18 | 02/01/05 15:40 | 8260B | | 12 | | 14 | | 02/13/05 17:35 | VOA |
| D5B020351015 | MW-15 | 02/01/05 16:00 | 8260B | | 10 | | 14 | | 02/11/05 01:33 | VOA |
| D5B020351016 | TRIP BLANK | 02/01/05 00:00 | 8260B | | 10 | | 14 | | 02/11/05 01:53 | VOA |

[redacted]

# Chain of Custody Record

5.2° WB 2/2/05

SEVERN TRENT **STL**

**Severn Trent Laboratories, Inc.**

**STL Denver**
4955 Yarrow Street
Arvada, CO 80002

54

STL-4124 (0901)

| | | | |
|---|---|---|---|
| Client: CAMERON-COLE | Project Manager: BRIAN MARTINEZ | Date: 2/1/05 | Chain of Custody Number: 313357 |
| Address: 5777 Central Ave, Suite 100 | Telephone Number (Area Code)/Fax Number: 303-938-5500 / 303-938-5520 | Lab Number: | Page 1 of 2 |
| City: BOULDER; State: CO; Zip Code: ~~80301~~ 80301 | Site Contact: | Lab Contact: | |
| Project Name and Location (State): CLEAN HARBORS – WICHITA, KS | Carrier/Waybill Number: | | |
| Contract/Purchase Order/Quote No.: 1808 | | | |

Analysis (Attach list if more space is needed): 8260B VOCs

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | | 8260B VOCs | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SK-B92 | 2/1/05 | 8:51 | | X | | | | | | | X | | | | 3 | |
| SK-B50 | | 9:31 | | X | | | | | | | X | | | | 3 | |
| WNC-32D | | 10:10 | | X | | | | | | | X | | | | 3 | |
| DUP-A | | 10:10 | | X | | | | | | | X | | | | 3 | |
| WNO-32S | | 10:40 | | X | | | | | | | X | | | | 3 | |
| MW-14 | | 10:55 | | X | | | | | | | X | | | | 3 | |
| SK-7D | | 11:35 | | X | | | | | | | X | | | | 3 | |
| DUP B | | 11:35 | | X | | | | | | | X | | | | 3 | |
| RSC-1 | | 13:55 | | X | | | | | | | X | | | | 3 | |
| MW-11 | | 14:25 | | X | | | | | | | X | | | | 3 | |
| SK-9D | | 14:45 | | X | | | | | | | X | | | | 3 | |
| FB-01 | | 12:00 | | X | | | | | | | X | | | | 3 | |

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [X] Other Normal TAT

QC Requirements (Specify):

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: A Schmidt | 2/1/05 | 17:50 | 1. Received By: [signature] | 2/2/05 | 0845 |
| 2. Relinquished By: | | | 2. Received By: | | |
| 3. Relinquished By: | | | 3. Received By: | | |

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

(9)

# Chain of Custody Record

SEVERN TRENT **STL**

**Severn Trent Laboratories, Inc.**

**STL Denver**
4955 Yarrow Street
Arvada, CO 80002

55

STL-4124 (0901)

| | | | |
|---|---|---|---|
| Client: CAMERON-COLE | Project Manager: BRIAN MARTINEK | Date: 2/1/05 | Chain of Custody Number: 313358 |
| Address: 5777 Central Ave, Suite 100 | Telephone Number (Area Code)/Fax Number: 303-938-5500 / 303-938-5520 | Lab Number: | Page 2 of 2 |
| City: Boulder; State: CO; Zip Code: 80301 | Site Contact: | Lab Contact: | |
| Project Name and Location (State): CH - WICHITA, KS | Carrier/Waybill Number: | | |
| Contract/Purchase Order/Quote No.: 1808 | | | |

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | | Analysis (Attach list if more space is needed): 8260B-VOC | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-10 | 2/1/05 | 15:15 | | X | | | | | | | X | | | | 3 | |
| MW-18 | ↓ | 15:40 | | X | | | | | | | X | | | | 3 | |
| MW-15 | ↓ | 16:00 | | X | | | | | | | X | | | | 3 | |

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [X] Other Normal TAT

QC Requirements (Specify):

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: A. Schmidt | 2/1/05 | 17:50 | 1. Received By: Brian Binetti | 2/2/05 | 0845 |
| 2. Relinquished By: | | | 2. Received By: | | |
| 3. Relinquished By: | | | 3. Received By: | | |

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

(12)

SEVERN TRENT STL

**STL Denver**
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

# ANALYTICAL REPORT

**GROUNDWATER**

**CLEAN HARBORS WICHITA**

**Lot #: D5B040358**

**Janette Wilson**

**Cameron-Cole LLC**
**5777 Central Avenue, Suite 100**
**Boulder, CO 80301**

**cc: Will Huskie**
**cc: John Arbuthnot**

**SEVERN TRENT LABORATORIES, INC.**

**Cheryl Sklenar**
**Project Manager**

**February 21, 2005**

**This report shall not be reproduced except in full, without the written approval of the laboratory**

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# CASE NARRATIVE

| | |
|---|---|
| Client Name: | Clean Harbors Wichita |
| Project Name: | Groundwater |
| Project Number: | |
| Sample Delivery Group: | D5B020351 |
| Narrative Date: | 02/21/05 |

**Sample Receipt**

- The following report contains the analytical results for twenty-seven samples and one trip blank, submitted to STL Denver by Cameron-Cole, Inc., in support of the Clean Harbors Wichita GW Program. The samples were received intact, at a temperature of 3.3°C, on February 4, 2005, according to documented sample acceptance procedures. Results for the following analyses can be found in this report: GC/MS Volatiles.

**GC/MS Volatiles**

- Sample analysis revealed detected target analytes at or above Clean Harbors (Wichita)'s RLs, as detailed in the Executive Summary-Detection Highlights Report. The samples were analyzed within holding time and without incident, with the exception of the following items noted.

- Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. In some cases, due to analytes present above the linear calibration curve, samples had to be analyzed at a dilution. For samples analyzed at a dilution, the reporting limits have been adjusted relative to the dilution required.

- The laboratory MSD performed on sample SK-3D and associated with QC prep batch 5047494 exhibited a spike analyte recovery outside the QC control limits, as detailed in the Matrix Spike Sample Evaluation and Data Reports. The acceptable LCS analysis data indicated that the analytical system was operating in control; therefore, corrective action is deemed unnecessary.

These data and reporting limits are being used specifically to meet the needs of this project. All RLs are supported by STL Denver's Method Detection Limits (MDLs). Reporting limits in this report are at or above the MDL.

I certify that the data presented in this report are accurate, complete, and meets the minimum quality assurance standards in 40-CFR 136, 40-CFR 141, and/or SW846. The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. An assessment of the quality of the data, noting any exceptions, outliers, and/or problems encountered have been narrated herein.

Cheryl Sklenar
Project Manager

2/21/05
Date

# EXECUTIVE SUMMARY - Detection Highlights

D5B040358

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **SK-8D 02/02/05 08:15 001** | | | | |
| cis-1,2-Dichloroethene | 1.9 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 39 | 1.0 | ug/L | SW846 8260B |
| **DUP-C 02/02/05 08:15 002** | | | | |
| cis-1,2-Dichloroethene | 2.0 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 38 | 1.0 | ug/L | SW846 8260B |
| **SK-8S 02/02/05 08:30 003** | | | | |
| cis-1,2-Dichloroethene | 1.9 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 7.5 | 1.0 | ug/L | SW846 8260B |
| **SK-1D 02/02/05 08:50 004** | | | | |
| Trichloroethene | 8.3 | 1.0 | ug/L | SW846 8260B |
| **DUP-D 02/02/05 08:50 005** | | | | |
| Trichloroethene | 7.3 | 1.0 | ug/L | SW846 8260B |
| **SK-1S 02/02/05 09:15 006** | | | | |
| cis-1,2-Dichloroethene | 3.5 | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | 10 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 4.8 | 1.0 | ug/L | SW846 8260B |
| Vinyl chloride | 2.7 | 1.0 | ug/L | SW846 8260B |
| **SK-6S 02/02/05 09:55 008** | | | | |
| 1,1-Dichloroethane | 6.6 | 1.0 | ug/L | SW846 8260B |
| cis-1,2-Dichloroethene | 1.2 | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | 3.5 | 1.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | 2.6 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 2.3 | 1.0 | ug/L | SW846 8260B |
| **SK-11S 02/02/05 10:15 009** | | | | |
| cis-1,2-Dichloroethene | 95 | 5.0 | ug/L | SW846 8260B |
| Tetrachloroethene | 19 | 5.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | 18 | 5.0 | ug/L | SW846 8260B |
| Trichloroethene | 52 | 5.0 | ug/L | SW846 8260B |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

D5B040358

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **SK-10S 02/02/05 10:35 010** | | | | |
| 1,1-Dichloroethane | 5.0 | 1.0 | ug/L | SW846 8260B |
| cis-1,2-Dichloroethene | 15 | 1.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | 1.2 | 0.50 | ug/L | SW846 8260B |
| Tetrachloroethene | 11 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 3.9 | 1.0 | ug/L | SW846 8260B |
| Vinyl chloride | 19 | 1.0 | ug/L | SW846 8260B |
| **SK-5D 02/02/05 10:55 011** | | | | |
| cis-1,2-Dichloroethene | 31 | 10 | ug/L | SW846 8260B |
| Trichloroethene | 170 | 10 | ug/L | SW846 8260B |
| **SK-5S 02/02/05 11:15 012** | | | | |
| cis-1,2-Dichloroethene | 16 | 2.0 | ug/L | SW846 8260B |
| Tetrachloroethene | 61 | 2.0 | ug/L | SW846 8260B |
| Trichloroethene | 15 | 2.0 | ug/L | SW846 8260B |
| **SK-2D 02/02/05 12:00 013** | | | | |
| cis-1,2-Dichloroethene | 40 | 10 | ug/L | SW846 8260B |
| Trichloroethene | 220 | 10 | ug/L | SW846 8260B |
| **SK-2S 02/02/05 12:20 014** | | | | |
| cis-1,2-Dichloroethene | 280 | 20 | ug/L | SW846 8260B |
| Tetrachloroethene | 360 | 20 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | 30 | 20 | ug/L | SW846 8260B |
| Trichloroethene | 160 | 20 | ug/L | SW846 8260B |
| **HRI-03 02/02/05 14:00 016** | | | | |
| Benzene | 4.6 | 1.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | 7.4 | 1.0 | ug/L | SW846 8260B |
| Chloroform | 8.6 | 1.0 | ug/L | SW846 8260B |
| cis-1,2-Dichloroethene | 11 | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | 5.8 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 56 | 1.0 | ug/L | SW846 8260B |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

D5B040358

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **SK-4D 02/02/05 14:25 017** | | | | |
| cis-1,2-Dichloroethene | 16 | 2.0 | ug/L | SW846 8260B |
| Tetrachloroethene | 4.3 | 2.0 | ug/L | SW846 8260B |
| Trichloroethene | 80 | 2.0 | ug/L | SW846 8260B |
| **SK-4S 02/02/05 14:45 018** | | | | |
| cis-1,2-Dichloroethene | 39 | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | 55 | 1.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | 4.2 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 12 | 1.0 | ug/L | SW846 8260B |
| Vinyl chloride | 1.2 | 1.0 | ug/L | SW846 8260B |
| **SK-12D 02/02/05 15:15 019** | | | | |
| cis-1,2-Dichloroethene | 15 | 2.7 | ug/L | SW846 8260B |
| Tetrachloroethene | 2.8 | 2.7 | ug/L | SW846 8260B |
| Trichloroethene | 77 | 2.7 | ug/L | SW846 8260B |
| **SK-12S 02/02/05 15:40 020** | | | | |
| Tetrachloroethene | 350 | 20 | ug/L | SW846 8260B |
| Trichloroethene | 23 | 20 | ug/L | SW846 8260B |
| **SK-3D 02/02/05 16:15 021** | | | | |
| cis-1,2-Dichloroethene | 16 | 2.0 | ug/L | SW846 8260B |
| Tetrachloroethene | 2.4 | 2.0 | ug/L | SW846 8260B |
| Trichloroethene | 88 | 2.0 | ug/L | SW846 8260B |
| **SK-3S 02/02/05 16:30 022** | | | | |
| cis-1,2-Dichloroethene | 6.3 | 2.0 | ug/L | SW846 8260B |
| Ethylbenzene | 18 | 2.0 | ug/L | SW846 8260B |
| Naphthalene | 5.5 | 2.0 | ug/L | SW846 8260B |
| n-Propylbenzene | 3.2 | 2.0 | ug/L | SW846 8260B |
| Tetrachloroethene | 4.7 | 2.0 | ug/L | SW846 8260B |
| Toluene | 34 | 2.0 | ug/L | SW846 8260B |
| Trichloroethene | 32 | 2.0 | ug/L | SW846 8260B |
| 1,2,4-Trimethylbenzene | 52 | 2.0 | ug/L | SW846 8260B |
| 1,3,5-Trimethylbenzene | 12 | 2.0 | ug/L | SW846 8260B |
| o-Xylene | 37 | 2.0 | ug/L | SW846 8260B |
| m-Xylene & p-Xylene | 100 | 4.0 | ug/L | SW846 8260B |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

D5B040358

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **SK-SW-5 02/03/05 08:00 023** | | | | |
| Trichloroethene | 1.1 | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trimethylbenzene | 1.2 | 1.0 | ug/L | SW846 8260B |
| **SK-SW-3 02/03/05 08:35 025** | | | | |
| Trichloroethene | 1.0 | 1.0 | ug/L | SW846 8260B |
| **SK-SW-2 02/03/05 08:45 026** | | | | |
| cis-1,2-Dichloroethene | 3.1 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 1.6 | 1.0 | ug/L | SW846 8260B |
| **SK-SW-1 02/03/05 09:00 027** | | | | |
| Benzene | 4.8 | 1.0 | ug/L | SW846 8260B |
| cis-1,2-Dichloroethene | 2.5 | 1.0 | ug/L | SW846 8260B |
| Naphthalene | 2.4 | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | 1.5 | 1.0 | ug/L | SW846 8260B |

# METHODS SUMMARY

**D5B040358**

| PARAMETER | ANALYTICAL METHOD | PREPARATION METHOD |
|---|---|---|
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B/826 |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# METHOD / ANALYST SUMMARY

D5B040358

| ANALYTICAL METHOD | ANALYST | ANALYST ID |
|---|---|---|
| SW846 8260B | Greg Meier | 006004 |
| SW846 8260B | Heather Despres | 009250 |
| SW846 8260B | Josh Yanez | 001198 |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

D5B040358

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| G3VDV | 001 | SK-8D | 02/02/05 | 08:15 |
| G3VD4 | 002 | DUP-C | 02/02/05 | 08:15 |
| G3VD5 | 003 | SK-8S | 02/02/05 | 08:30 |
| G3VD6 | 004 | SK-1D | 02/02/05 | 08:50 |
| G3VD7 | 005 | DUP-D | 02/02/05 | 08:50 |
| G3VD8 | 006 | SK-1S | 02/02/05 | 09:15 |
| G3VD9 | 007 | FB-02 | 02/02/05 | 12:00 |
| G3VEC | 008 | SK-6S | 02/02/05 | 09:55 |
| G3VEE | 009 | SK-11S | 02/02/05 | 10:15 |
| G3VEG | 010 | SK-10S | 02/02/05 | 10:35 |
| G3VEK | 011 | SK-5D | 02/02/05 | 10:55 |
| G3VEM | 012 | SK-5S | 02/02/05 | 11:15 |
| G3VEN | 013 | SK-2D | 02/02/05 | 12:00 |
| G3VET | 014 | SK-2S | 02/02/05 | 12:20 |
| G3VEV | 015 | FB-04 | 02/02/05 | 14:00 |
| G3VEX | 016 | HRI-03 | 02/02/05 | 14:00 |
| G3VE1 | 017 | SK-4D | 02/02/05 | 14:25 |
| G3VE3 | 018 | SK-4S | 02/02/05 | 14:45 |
| G3VE6 | 019 | SK-12D | 02/02/05 | 15:15 |
| G3VE7 | 020 | SK-12S | 02/02/05 | 15:40 |
| G3VE9 | 021 | SK-3D | 02/02/05 | 16:15 |
| G3VFA | 022 | SK-3S | 02/02/05 | 16:30 |
| G3VFD | 023 | SK-SW-5 | 02/03/05 | 08:00 |
| G3VFE | 024 | SK-SW-4 | 02/03/05 | 08:20 |
| G3VFG | 025 | SK-SW-3 | 02/03/05 | 08:35 |
| G3VFH | 026 | SK-SW-2 | 02/03/05 | 08:45 |
| G3VFJ | 027 | SK-SW-1 | 02/03/05 | 09:00 |
| G3VFK | 028 | TB | 02/03/05 | |

**NOTE(S):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Cameron-Cole LLC

Client Sample ID: SK-8D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-001 **Work Order #...:** G3VDV1AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 08:15 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 08:48
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **1.9** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-8D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-001 **Work Order #...:** G3VDV1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **39** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 93 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 83 | (62 - 128) |
| 4-Bromofluorobenzene | 89 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: DUP-C

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-002 **Work Order #...:** G3VD41AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 08:15 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 09:50
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **2.0** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: DUP-C

GC/MS Volatiles

Lot-Sample #...: D5B040358-002 Work Order #...: G3VD41AA Matrix.....: WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **38** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 96 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 83 | (62 - 128) |
| 4-Bromofluorobenzene | 88 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-8S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-003 **Work Order #...:** G3VD51AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 08:30 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 10:11
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **1.9** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-8S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-003 **Work Order #...:** G3VD51AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **7.5** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 97 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 83 | (62 - 128) |
| 4-Bromofluorobenzene | 95 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-1D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-004 **Work Order #...:** G3VD61AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 08:50 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 10:32
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-1D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-004 **Work Order #...:** G3VD61AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **8.3** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 83 | (62 - 128) |
| 4-Bromofluorobenzene | 92 | (78 - 118) |
| Toluene-d8 | 103 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: DUP-D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-005 **Work Order #...:** G3VD71AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 08:50 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 10:53
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: DUP-D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-005 **Work Order #...:** G3VD71AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **7.3** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 96 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 82 | (62 - 128) |
| 4-Bromofluorobenzene | 88 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-1S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-006 **Work Order #...:** G3VD81AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 09:15 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 11:14
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **3.5** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-1S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-006 **Work Order #...:** G3VD81AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| **Tetrachloroethene** | **10** | **1.0** | **ug/L** |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **4.8** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| **Vinyl chloride** | **2.7** | **1.0** | **ug/L** |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 97 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 85 | (62 - 128) |
| 4-Bromofluorobenzene | 92 | (78 - 118) |
| Toluene-d8 | 103 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: FB-02

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-007 **Work Order #...:** G3VD91AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 12:00 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 11:34
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: FB-02

GC/MS Volatiles

Lot-Sample #...: D5B040358-007 Work Order #...: G3VD91AA Matrix.....: WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 97 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 83 | (62 - 128) |
| 4-Bromofluorobenzene | 92 | (78 - 118) |
| Toluene-d8 | 104 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-6S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-008 **Work Order #...:** G3VEC1AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 09:55 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 11:55
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| **1,1-Dichloroethane** | **6.6** | **1.0** | **ug/L** |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **1.2** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-6S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-008 **Work Order #...:** G3VEC1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| **Tetrachloroethene** | **3.5** | **1.0** | **ug/L** |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| **1,1,1-Trichloroethane** | **2.6** | **1.0** | **ug/L** |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **2.3** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 100 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 85 | (62 - 128) |
| 4-Bromofluorobenzene | 90 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-11S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-009 **Work Order #...:** G3VEE1AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 10:15 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 12:16
**Dilution Factor:** 5

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 5.0 | ug/L |
| Bromobenzene | ND | 5.0 | ug/L |
| Bromochloromethane | ND | 5.0 | ug/L |
| Bromodichloromethane | ND | 5.0 | ug/L |
| Bromoform | ND | 5.0 | ug/L |
| Bromomethane | ND | 10 | ug/L |
| n-Butylbenzene | ND | 5.0 | ug/L |
| sec-Butylbenzene | ND | 5.0 | ug/L |
| tert-Butylbenzene | ND | 5.0 | ug/L |
| Carbon tetrachloride | ND | 5.0 | ug/L |
| Chlorobenzene | ND | 5.0 | ug/L |
| Chlorodibromomethane | ND | 5.0 | ug/L |
| Chloroethane | ND | 10 | ug/L |
| Chloroform | ND | 5.0 | ug/L |
| Chloromethane | ND | 10 | ug/L |
| 2-Chlorotoluene | ND | 5.0 | ug/L |
| 4-Chlorotoluene | ND | 5.0 | ug/L |
| Dibromomethane | ND | 5.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L |
| Dichlorodifluoromethane | ND | 10 | ug/L |
| 1,1-Dichloroethane | ND | 5.0 | ug/L |
| 1,2-Dichloroethane | ND | 5.0 | ug/L |
| 1,1-Dichloroethene | ND | 5.0 | ug/L |
| **cis-1,2-Dichloroethene** | **95** | **5.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/L |
| 1,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,3-Dichloropropane | ND | 5.0 | ug/L |
| 2,2-Dichloropropane | ND | 25 | ug/L |
| 1,1-Dichloropropene | ND | 5.0 | ug/L |
| Ethylbenzene | ND | 5.0 | ug/L |
| Trichlorofluoromethane | ND | 10 | ug/L |
| Hexachlorobutadiene | ND | 5.0 | ug/L |
| Isopropylbenzene | ND | 5.0 | ug/L |
| p-Isopropyltoluene | ND | 5.0 | ug/L |
| Methylene chloride | ND | 5.0 | ug/L |
| Naphthalene | ND | 5.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-11S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-009 **Work Order #...:** G3VEE1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 5.0 | ug/L |
| Styrene | ND | 5.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/L |
| **Tetrachloroethene** | **19** | **5.0** | **ug/L** |
| Toluene | ND | 5.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/L |
| **1,1,1-Trichloroethane** | **18** | **5.0** | **ug/L** |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/L |
| **Trichloroethene** | **52** | **5.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/L |
| Vinyl chloride | ND | 5.0 | ug/L |
| o-Xylene | ND | 5.0 | ug/L |
| m-Xylene & p-Xylene | ND | 10 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 10 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 5.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 84 | (62 - 128) |
| 4-Bromofluorobenzene | 94 | (78 - 118) |
| Toluene-d8 | 108 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-10S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-010 **Work Order #...:** G3VEG1AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 10:35 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 12:37
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| **1,1-Dichloroethane** | **5.0** | **1.0** | **ug/L** |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **15** | **1.0** | **ug/L** |
| **trans-1,2-Dichloroethene** | **1.2** | **0.50** | **ug/L** |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-10S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-010 **Work Order #...:** G3VEG1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| **Tetrachloroethene** | **11** | **1.0** | **ug/L** |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **3.9** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| **Vinyl chloride** | **19** | **1.0** | **ug/L** |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 99 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 84 | (62 - 128) |
| 4-Bromofluorobenzene | 91 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-5D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-011 **Work Order #...:** G3VEK1AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 10:55 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 12:57
**Dilution Factor:** 10

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 10 | ug/L |
| Bromobenzene | ND | 10 | ug/L |
| Bromochloromethane | ND | 10 | ug/L |
| Bromodichloromethane | ND | 10 | ug/L |
| Bromoform | ND | 10 | ug/L |
| Bromomethane | ND | 20 | ug/L |
| n-Butylbenzene | ND | 10 | ug/L |
| sec-Butylbenzene | ND | 10 | ug/L |
| tert-Butylbenzene | ND | 10 | ug/L |
| Carbon tetrachloride | ND | 10 | ug/L |
| Chlorobenzene | ND | 10 | ug/L |
| Chlorodibromomethane | ND | 10 | ug/L |
| Chloroethane | ND | 20 | ug/L |
| Chloroform | ND | 10 | ug/L |
| Chloromethane | ND | 20 | ug/L |
| 2-Chlorotoluene | ND | 10 | ug/L |
| 4-Chlorotoluene | ND | 10 | ug/L |
| Dibromomethane | ND | 10 | ug/L |
| 1,2-Dichlorobenzene | ND | 10 | ug/L |
| 1,3-Dichlorobenzene | ND | 10 | ug/L |
| 1,4-Dichlorobenzene | ND | 10 | ug/L |
| Dichlorodifluoromethane | ND | 20 | ug/L |
| 1,1-Dichloroethane | ND | 10 | ug/L |
| 1,2-Dichloroethane | ND | 10 | ug/L |
| 1,1-Dichloroethene | ND | 10 | ug/L |
| **cis-1,2-Dichloroethene** | **31** | **10** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L |
| 1,2-Dichloropropane | ND | 10 | ug/L |
| 1,3-Dichloropropane | ND | 10 | ug/L |
| 2,2-Dichloropropane | ND | 50 | ug/L |
| 1,1-Dichloropropene | ND | 10 | ug/L |
| Ethylbenzene | ND | 10 | ug/L |
| Trichlorofluoromethane | ND | 20 | ug/L |
| Hexachlorobutadiene | ND | 10 | ug/L |
| Isopropylbenzene | ND | 10 | ug/L |
| p-Isopropyltoluene | ND | 10 | ug/L |
| Methylene chloride | ND | 10 | ug/L |
| Naphthalene | ND | 10 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-5D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-011 **Work Order #...:** G3VEK1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 10 | ug/L |
| Styrene | ND | 10 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 10 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 10 | ug/L |
| Tetrachloroethene | ND | 10 | ug/L |
| Toluene | ND | 10 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 10 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 10 | ug/L |
| 1,1,1-Trichloroethane | ND | 10 | ug/L |
| 1,1,2-Trichloroethane | ND | 10 | ug/L |
| **Trichloroethene** | **170** | **10** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 10 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 10 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 10 | ug/L |
| Vinyl chloride | ND | 10 | ug/L |
| o-Xylene | ND | 10 | ug/L |
| m-Xylene & p-Xylene | ND | 20 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 20 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 10 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 96 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 87 | (62 - 128) |
| 4-Bromofluorobenzene | 89 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-5S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-012 **Work Order #...:** G3VEM1AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 11:15 **Date Received..:** 02/04/05
**Prep Date.....:** 02/16/05 **Analysis Date..:** 02/16/05
**Prep Batch #...:** 5048224 **Analysis Time..:** 10:28
**Dilution Factor:** 2

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 2.0 | ug/L |
| Bromobenzene | ND | 2.0 | ug/L |
| Bromochloromethane | ND | 2.0 | ug/L |
| Bromodichloromethane | ND | 2.0 | ug/L |
| Bromoform | ND | 2.0 | ug/L |
| Bromomethane | ND | 4.0 | ug/L |
| n-Butylbenzene | ND | 2.0 | ug/L |
| sec-Butylbenzene | ND | 2.0 | ug/L |
| tert-Butylbenzene | ND | 2.0 | ug/L |
| Carbon tetrachloride | ND | 2.0 | ug/L |
| Chlorobenzene | ND | 2.0 | ug/L |
| Chlorodibromomethane | ND | 2.0 | ug/L |
| Chloroethane | ND | 4.0 | ug/L |
| Chloroform | ND | 2.0 | ug/L |
| Chloromethane | ND | 4.0 | ug/L |
| 2-Chlorotoluene | ND | 2.0 | ug/L |
| 4-Chlorotoluene | ND | 2.0 | ug/L |
| Dibromomethane | ND | 2.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/L |
| Dichlorodifluoromethane | ND | 4.0 | ug/L |
| 1,1-Dichloroethane | ND | 2.0 | ug/L |
| 1,2-Dichloroethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethene | ND | 2.0 | ug/L |
| **cis-1,2-Dichloroethene** | **16** | **2.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L |
| 1,2-Dichloropropane | ND | 2.0 | ug/L |
| 1,3-Dichloropropane | ND | 2.0 | ug/L |
| 2,2-Dichloropropane | ND | 10 | ug/L |
| 1,1-Dichloropropene | ND | 2.0 | ug/L |
| Ethylbenzene | ND | 2.0 | ug/L |
| Trichlorofluoromethane | ND | 4.0 | ug/L |
| Hexachlorobutadiene | ND | 2.0 | ug/L |
| Isopropylbenzene | ND | 2.0 | ug/L |
| p-Isopropyltoluene | ND | 2.0 | ug/L |
| Methylene chloride | ND | 2.0 | ug/L |
| Naphthalene | ND | 2.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-5S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-012 **Work Order #...:** G3VEM1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 2.0 | ug/L |
| Styrene | ND | 2.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 2.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/L |
| **Tetrachloroethene** | **61** | **2.0** | **ug/L** |
| Toluene | ND | 2.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 2.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 2.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/L |
| **Trichloroethene** | **15** | **2.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/L |
| Vinyl chloride | ND | 2.0 | ug/L |
| o-Xylene | ND | 2.0 | ug/L |
| m-Xylene & p-Xylene | ND | 4.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 4.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 107 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 114 | (62 - 128) |
| 4-Bromofluorobenzene | 104 | (78 - 118) |
| Toluene-d8 | 104 | (77 - 117) |

**Cameron-Cole LLC**

**Client Sample ID: SK-2D**

**GC/MS Volatiles**

**Lot-Sample #...:** D5B040358-013 **Work Order #...:** G3VEN1AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 12:00 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 13:39
**Dilution Factor:** 10

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 10 | ug/L |
| Bromobenzene | ND | 10 | ug/L |
| Bromochloromethane | ND | 10 | ug/L |
| Bromodichloromethane | ND | 10 | ug/L |
| Bromoform | ND | 10 | ug/L |
| Bromomethane | ND | 20 | ug/L |
| n-Butylbenzene | ND | 10 | ug/L |
| sec-Butylbenzene | ND | 10 | ug/L |
| tert-Butylbenzene | ND | 10 | ug/L |
| Carbon tetrachloride | ND | 10 | ug/L |
| Chlorobenzene | ND | 10 | ug/L |
| Chlorodibromomethane | ND | 10 | ug/L |
| Chloroethane | ND | 20 | ug/L |
| Chloroform | ND | 10 | ug/L |
| Chloromethane | ND | 20 | ug/L |
| 2-Chlorotoluene | ND | 10 | ug/L |
| 4-Chlorotoluene | ND | 10 | ug/L |
| Dibromomethane | ND | 10 | ug/L |
| 1,2-Dichlorobenzene | ND | 10 | ug/L |
| 1,3-Dichlorobenzene | ND | 10 | ug/L |
| 1,4-Dichlorobenzene | ND | 10 | ug/L |
| Dichlorodifluoromethane | ND | 20 | ug/L |
| 1,1-Dichloroethane | ND | 10 | ug/L |
| 1,2-Dichloroethane | ND | 10 | ug/L |
| 1,1-Dichloroethene | ND | 10 | ug/L |
| **cis-1,2-Dichloroethene** | **40** | **10** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L |
| 1,2-Dichloropropane | ND | 10 | ug/L |
| 1,3-Dichloropropane | ND | 10 | ug/L |
| 2,2-Dichloropropane | ND | 50 | ug/L |
| 1,1-Dichloropropene | ND | 10 | ug/L |
| Ethylbenzene | ND | 10 | ug/L |
| Trichlorofluoromethane | ND | 20 | ug/L |
| Hexachlorobutadiene | ND | 10 | ug/L |
| Isopropylbenzene | ND | 10 | ug/L |
| p-Isopropyltoluene | ND | 10 | ug/L |
| Methylene chloride | ND | 10 | ug/L |
| Naphthalene | ND | 10 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-2D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-013 **Work Order #...:** G3VEN1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 10 | ug/L |
| Styrene | ND | 10 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 10 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 10 | ug/L |
| Tetrachloroethene | ND | 10 | ug/L |
| Toluene | ND | 10 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 10 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 10 | ug/L |
| 1,1,1-Trichloroethane | ND | 10 | ug/L |
| 1,1,2-Trichloroethane | ND | 10 | ug/L |
| **Trichloroethene** | **220** | **10** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 10 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 10 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 10 | ug/L |
| Vinyl chloride | ND | 10 | ug/L |
| o-Xylene | ND | 10 | ug/L |
| m-Xylene & p-Xylene | ND | 20 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 20 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 10 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 97 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 84 | (62 - 128) |
| 4-Bromofluorobenzene | 88 | (78 - 118) |
| Toluene-d8 | 100 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-2S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-014 **Work Order #...:** G3VET1AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 12:20 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 14:00
**Dilution Factor:** 20

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 20 | ug/L |
| Bromobenzene | ND | 20 | ug/L |
| Bromochloromethane | ND | 20 | ug/L |
| Bromodichloromethane | ND | 20 | ug/L |
| Bromoform | ND | 20 | ug/L |
| Bromomethane | ND | 40 | ug/L |
| n-Butylbenzene | ND | 20 | ug/L |
| sec-Butylbenzene | ND | 20 | ug/L |
| tert-Butylbenzene | ND | 20 | ug/L |
| Carbon tetrachloride | ND | 20 | ug/L |
| Chlorobenzene | ND | 20 | ug/L |
| Chlorodibromomethane | ND | 20 | ug/L |
| Chloroethane | ND | 40 | ug/L |
| Chloroform | ND | 20 | ug/L |
| Chloromethane | ND | 40 | ug/L |
| 2-Chlorotoluene | ND | 20 | ug/L |
| 4-Chlorotoluene | ND | 20 | ug/L |
| Dibromomethane | ND | 20 | ug/L |
| 1,2-Dichlorobenzene | ND | 20 | ug/L |
| 1,3-Dichlorobenzene | ND | 20 | ug/L |
| 1,4-Dichlorobenzene | ND | 20 | ug/L |
| Dichlorodifluoromethane | ND | 40 | ug/L |
| 1,1-Dichloroethane | ND | 20 | ug/L |
| 1,2-Dichloroethane | ND | 20 | ug/L |
| 1,1-Dichloroethene | ND | 20 | ug/L |
| **cis-1,2-Dichloroethene** | **280** | **20** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 10 | ug/L |
| 1,2-Dichloropropane | ND | 20 | ug/L |
| 1,3-Dichloropropane | ND | 20 | ug/L |
| 2,2-Dichloropropane | ND | 100 | ug/L |
| 1,1-Dichloropropene | ND | 20 | ug/L |
| Ethylbenzene | ND | 20 | ug/L |
| Trichlorofluoromethane | ND | 40 | ug/L |
| Hexachlorobutadiene | ND | 20 | ug/L |
| Isopropylbenzene | ND | 20 | ug/L |
| p-Isopropyltoluene | ND | 20 | ug/L |
| Methylene chloride | ND | 20 | ug/L |
| Naphthalene | ND | 20 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-2S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-014 **Work Order #...:** G3VET1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 20 | ug/L |
| Styrene | ND | 20 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 20 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 20 | ug/L |
| **Tetrachloroethene** | **360** | **20** | **ug/L** |
| Toluene | ND | 20 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 20 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 20 | ug/L |
| **1,1,1-Trichloroethane** | **30** | **20** | **ug/L** |
| 1,1,2-Trichloroethane | ND | 20 | ug/L |
| **Trichloroethene** | **160** | **20** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 20 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 20 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 20 | ug/L |
| Vinyl chloride | ND | 20 | ug/L |
| o-Xylene | ND | 20 | ug/L |
| m-Xylene & p-Xylene | ND | 40 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 40 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 20 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 86 | (62 - 128) |
| 4-Bromofluorobenzene | 91 | (78 - 118) |
| Toluene-d8 | 105 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: FB-04

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-015 **Work Order #...:** G3VEV1AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 14:00 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 14:21
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: FB-04

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-015 **Work Order #...:** G3VEV1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 94 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 82 | (62 - 128) |
| 4-Bromofluorobenzene | 89 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: HRI-03

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-016 **Work Order #...:** G3VEX1AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 14:00 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 14:42
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Benzene** | **4.6** | **1.0** | **ug/L** |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| **Carbon tetrachloride** | **7.4** | **1.0** | **ug/L** |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| **Chloroform** | **8.6** | **1.0** | **ug/L** |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **11** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: HRI-03

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-016 **Work Order #...:** G3VEX1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| **Tetrachloroethene** | **5.8** | **1.0** | **ug/L** |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **56** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 96 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 83 | (62 - 128) |
| 4-Bromofluorobenzene | 89 | (78 - 118) |
| Toluene-d8 | 105 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-4D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-017 **Work Order #...:** G3VE11AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 14:25 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 15:03
**Dilution Factor:** 2

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 2.0 | ug/L |
| Bromobenzene | ND | 2.0 | ug/L |
| Bromochloromethane | ND | 2.0 | ug/L |
| Bromodichloromethane | ND | 2.0 | ug/L |
| Bromoform | ND | 2.0 | ug/L |
| Bromomethane | ND | 4.0 | ug/L |
| n-Butylbenzene | ND | 2.0 | ug/L |
| sec-Butylbenzene | ND | 2.0 | ug/L |
| tert-Butylbenzene | ND | 2.0 | ug/L |
| Carbon tetrachloride | ND | 2.0 | ug/L |
| Chlorobenzene | ND | 2.0 | ug/L |
| Chlorodibromomethane | ND | 2.0 | ug/L |
| Chloroethane | ND | 4.0 | ug/L |
| Chloroform | ND | 2.0 | ug/L |
| Chloromethane | ND | 4.0 | ug/L |
| 2-Chlorotoluene | ND | 2.0 | ug/L |
| 4-Chlorotoluene | ND | 2.0 | ug/L |
| Dibromomethane | ND | 2.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/L |
| Dichlorodifluoromethane | ND | 4.0 | ug/L |
| 1,1-Dichloroethane | ND | 2.0 | ug/L |
| 1,2-Dichloroethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethene | ND | 2.0 | ug/L |
| **cis-1,2-Dichloroethene** | **16** | **2.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L |
| 1,2-Dichloropropane | ND | 2.0 | ug/L |
| 1,3-Dichloropropane | ND | 2.0 | ug/L |
| 2,2-Dichloropropane | ND | 10 | ug/L |
| 1,1-Dichloropropene | ND | 2.0 | ug/L |
| Ethylbenzene | ND | 2.0 | ug/L |
| Trichlorofluoromethane | ND | 4.0 | ug/L |
| Hexachlorobutadiene | ND | 2.0 | ug/L |
| Isopropylbenzene | ND | 2.0 | ug/L |
| p-Isopropyltoluene | ND | 2.0 | ug/L |
| Methylene chloride | ND | 2.0 | ug/L |
| Naphthalene | ND | 2.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-4D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-017 **Work Order #...:** G3VE11AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 2.0 | ug/L |
| Styrene | ND | 2.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 2.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/L |
| **Tetrachloroethene** | **4.3** | **2.0** | **ug/L** |
| Toluene | ND | 2.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 2.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 2.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/L |
| **Trichloroethene** | **80** | **2.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/L |
| Vinyl chloride | ND | 2.0 | ug/L |
| o-Xylene | ND | 2.0 | ug/L |
| m-Xylene & p-Xylene | ND | 4.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 4.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 99 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 84 | (62 - 128) |
| 4-Bromofluorobenzene | 92 | (78 - 118) |
| Toluene-d8 | 106 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-4S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-018 **Work Order #...:** G3VE31AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 14:45 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 15:23
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **39** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-4S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-018 **Work Order #...:** G3VE31AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| **Tetrachloroethene** | **55** | **1.0** | **ug/L** |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| **1,1,1-Trichloroethane** | **4.2** | **1.0** | **ug/L** |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **12** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| **Vinyl chloride** | **1.2** | **1.0** | **ug/L** |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 82 | (62 - 128) |
| 4-Bromofluorobenzene | 89 | (78 - 118) |
| Toluene-d8 | 104 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-12D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-019 **Work Order #...:** G3VE61AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 15:15 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 15:44
**Dilution Factor:** 2.66

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 2.7 | ug/L |
| Bromobenzene | ND | 2.7 | ug/L |
| Bromochloromethane | ND | 2.7 | ug/L |
| Bromodichloromethane | ND | 2.7 | ug/L |
| Bromoform | ND | 2.7 | ug/L |
| Bromomethane | ND | 5.3 | ug/L |
| n-Butylbenzene | ND | 2.7 | ug/L |
| sec-Butylbenzene | ND | 2.7 | ug/L |
| tert-Butylbenzene | ND | 2.7 | ug/L |
| Carbon tetrachloride | ND | 2.7 | ug/L |
| Chlorobenzene | ND | 2.7 | ug/L |
| Chlorodibromomethane | ND | 2.7 | ug/L |
| Chloroethane | ND | 5.3 | ug/L |
| Chloroform | ND | 2.7 | ug/L |
| Chloromethane | ND | 5.3 | ug/L |
| 2-Chlorotoluene | ND | 2.7 | ug/L |
| 4-Chlorotoluene | ND | 2.7 | ug/L |
| Dibromomethane | ND | 2.7 | ug/L |
| 1,2-Dichlorobenzene | ND | 2.7 | ug/L |
| 1,3-Dichlorobenzene | ND | 2.7 | ug/L |
| 1,4-Dichlorobenzene | ND | 2.7 | ug/L |
| Dichlorodifluoromethane | ND | 5.3 | ug/L |
| 1,1-Dichloroethane | ND | 2.7 | ug/L |
| 1,2-Dichloroethane | ND | 2.7 | ug/L |
| 1,1-Dichloroethene | ND | 2.7 | ug/L |
| **cis-1,2-Dichloroethene** | **15** | **2.7** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 1.3 | ug/L |
| 1,2-Dichloropropane | ND | 2.7 | ug/L |
| 1,3-Dichloropropane | ND | 2.7 | ug/L |
| 2,2-Dichloropropane | ND | 13 | ug/L |
| 1,1-Dichloropropene | ND | 2.7 | ug/L |
| Ethylbenzene | ND | 2.7 | ug/L |
| Trichlorofluoromethane | ND | 5.3 | ug/L |
| Hexachlorobutadiene | ND | 2.7 | ug/L |
| Isopropylbenzene | ND | 2.7 | ug/L |
| p-Isopropyltoluene | ND | 2.7 | ug/L |
| Methylene chloride | ND | 2.7 | ug/L |
| Naphthalene | ND | 2.7 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-12D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-019 **Work Order #...:** G3VE61AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 2.7 | ug/L |
| Styrene | ND | 2.7 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 2.7 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 2.7 | ug/L |
| **Tetrachloroethene** | **2.8** | **2.7** | **ug/L** |
| Toluene | ND | 2.7 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 2.7 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 2.7 | ug/L |
| 1,1,1-Trichloroethane | ND | 2.7 | ug/L |
| 1,1,2-Trichloroethane | ND | 2.7 | ug/L |
| **Trichloroethene** | **77** | **2.7** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 2.7 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 2.7 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 2.7 | ug/L |
| Vinyl chloride | ND | 2.7 | ug/L |
| o-Xylene | ND | 2.7 | ug/L |
| m-Xylene & p-Xylene | ND | 5.3 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.3 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 2.7 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 97 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 84 | (62 - 128) |
| 4-Bromofluorobenzene | 89 | (78 - 118) |
| Toluene-d8 | 103 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-12S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-020 **Work Order #...:** G3VE71AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 15:40 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 16:05
**Dilution Factor:** 20

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 20 | ug/L |
| Bromobenzene | ND | 20 | ug/L |
| Bromochloromethane | ND | 20 | ug/L |
| Bromodichloromethane | ND | 20 | ug/L |
| Bromoform | ND | 20 | ug/L |
| Bromomethane | ND | 40 | ug/L |
| n-Butylbenzene | ND | 20 | ug/L |
| sec-Butylbenzene | ND | 20 | ug/L |
| tert-Butylbenzene | ND | 20 | ug/L |
| Carbon tetrachloride | ND | 20 | ug/L |
| Chlorobenzene | ND | 20 | ug/L |
| Chlorodibromomethane | ND | 20 | ug/L |
| Chloroethane | ND | 40 | ug/L |
| Chloroform | ND | 20 | ug/L |
| Chloromethane | ND | 40 | ug/L |
| 2-Chlorotoluene | ND | 20 | ug/L |
| 4-Chlorotoluene | ND | 20 | ug/L |
| Dibromomethane | ND | 20 | ug/L |
| 1,2-Dichlorobenzene | ND | 20 | ug/L |
| 1,3-Dichlorobenzene | ND | 20 | ug/L |
| 1,4-Dichlorobenzene | ND | 20 | ug/L |
| Dichlorodifluoromethane | ND | 40 | ug/L |
| 1,1-Dichloroethane | ND | 20 | ug/L |
| 1,2-Dichloroethane | ND | 20 | ug/L |
| 1,1-Dichloroethene | ND | 20 | ug/L |
| cis-1,2-Dichloroethene | ND | 20 | ug/L |
| trans-1,2-Dichloroethene | ND | 10 | ug/L |
| 1,2-Dichloropropane | ND | 20 | ug/L |
| 1,3-Dichloropropane | ND | 20 | ug/L |
| 2,2-Dichloropropane | ND | 100 | ug/L |
| 1,1-Dichloropropene | ND | 20 | ug/L |
| Ethylbenzene | ND | 20 | ug/L |
| Trichlorofluoromethane | ND | 40 | ug/L |
| Hexachlorobutadiene | ND | 20 | ug/L |
| Isopropylbenzene | ND | 20 | ug/L |
| p-Isopropyltoluene | ND | 20 | ug/L |
| Methylene chloride | ND | 20 | ug/L |
| Naphthalene | ND | 20 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-12S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-020 **Work Order #...:** G3VE71AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 20 | ug/L |
| Styrene | ND | 20 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 20 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 20 | ug/L |
| **Tetrachloroethene** | **350** | **20** | **ug/L** |
| Toluene | ND | 20 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 20 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 20 | ug/L |
| 1,1,1-Trichloroethane | ND | 20 | ug/L |
| 1,1,2-Trichloroethane | ND | 20 | ug/L |
| **Trichloroethene** | **23** | **20** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 20 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 20 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 20 | ug/L |
| Vinyl chloride | ND | 20 | ug/L |
| o-Xylene | ND | 20 | ug/L |
| m-Xylene & p-Xylene | ND | 40 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 40 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 20 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 84 | (62 - 128) |
| 4-Bromofluorobenzene | 91 | (78 - 118) |
| Toluene-d8 | 105 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-3D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-021 **Work Order #...:** G3VE91AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 16:15 **Date Received..:** 02/04/05
**Prep Date.....:** 02/15/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5047494 **Analysis Time..:** 17:34
**Dilution Factor:** 2

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 2.0 | ug/L |
| Bromobenzene | ND | 2.0 | ug/L |
| Bromochloromethane | ND | 2.0 | ug/L |
| Bromodichloromethane | ND | 2.0 | ug/L |
| Bromoform | ND | 2.0 | ug/L |
| Bromomethane | ND | 4.0 | ug/L |
| n-Butylbenzene | ND | 2.0 | ug/L |
| sec-Butylbenzene | ND | 2.0 | ug/L |
| tert-Butylbenzene | ND | 2.0 | ug/L |
| Carbon tetrachloride | ND | 2.0 | ug/L |
| Chlorobenzene | ND | 2.0 | ug/L |
| Chlorodibromomethane | ND | 2.0 | ug/L |
| Chloroethane | ND | 4.0 | ug/L |
| Chloroform | ND | 2.0 | ug/L |
| Chloromethane | ND | 4.0 | ug/L |
| 2-Chlorotoluene | ND | 2.0 | ug/L |
| 4-Chlorotoluene | ND | 2.0 | ug/L |
| Dibromomethane | ND | 2.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/L |
| Dichlorodifluoromethane | ND | 4.0 | ug/L |
| 1,1-Dichloroethane | ND | 2.0 | ug/L |
| 1,2-Dichloroethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethene | ND | 2.0 | ug/L |
| **cis-1,2-Dichloroethene** | **16** | **2.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L |
| 1,2-Dichloropropane | ND | 2.0 | ug/L |
| 1,3-Dichloropropane | ND | 2.0 | ug/L |
| 2,2-Dichloropropane | ND | 10 | ug/L |
| 1,1-Dichloropropene | ND | 2.0 | ug/L |
| Ethylbenzene | ND | 2.0 | ug/L |
| Trichlorofluoromethane | ND | 4.0 | ug/L |
| Hexachlorobutadiene | ND | 2.0 | ug/L |
| Isopropylbenzene | ND | 2.0 | ug/L |
| p-Isopropyltoluene | ND | 2.0 | ug/L |
| Methylene chloride | ND | 2.0 | ug/L |
| Naphthalene | ND | 2.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-3D

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-021 **Work Order #...:** G3VE91AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 2.0 | ug/L |
| Styrene | ND | 2.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 2.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/L |
| **Tetrachloroethene** | **2.4** | **2.0** | **ug/L** |
| Toluene | ND | 2.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 2.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 2.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/L |
| **Trichloroethene** | **88** | **2.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/L |
| Vinyl chloride | ND | 2.0 | ug/L |
| o-Xylene | ND | 2.0 | ug/L |
| m-Xylene & p-Xylene | ND | 4.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 4.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 95 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 82 | (62 - 128) |
| 4-Bromofluorobenzene | 87 | (78 - 118) |
| Toluene-d8 | 108 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-3S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-022 **Work Order #...:** G3VFA1AA **Matrix.....:** WATER
**Date Sampled...:** 02/02/05 16:30 **Date Received..:** 02/04/05
**Prep Date.....:** 02/15/05 **Analysis Date..:** 02/16/05
**Prep Batch #...:** 5047494 **Analysis Time..:** 01:13
**Dilution Factor:** 2

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 2.0 | ug/L |
| Bromobenzene | ND | 2.0 | ug/L |
| Bromochloromethane | ND | 2.0 | ug/L |
| Bromodichloromethane | ND | 2.0 | ug/L |
| Bromoform | ND | 2.0 | ug/L |
| Bromomethane | ND | 4.0 | ug/L |
| n-Butylbenzene | ND | 2.0 | ug/L |
| sec-Butylbenzene | ND | 2.0 | ug/L |
| tert-Butylbenzene | ND | 2.0 | ug/L |
| Carbon tetrachloride | ND | 2.0 | ug/L |
| Chlorobenzene | ND | 2.0 | ug/L |
| Chlorodibromomethane | ND | 2.0 | ug/L |
| Chloroethane | ND | 4.0 | ug/L |
| Chloroform | ND | 2.0 | ug/L |
| Chloromethane | ND | 4.0 | ug/L |
| 2-Chlorotoluene | ND | 2.0 | ug/L |
| 4-Chlorotoluene | ND | 2.0 | ug/L |
| Dibromomethane | ND | 2.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/L |
| Dichlorodifluoromethane | ND | 4.0 | ug/L |
| 1,1-Dichloroethane | ND | 2.0 | ug/L |
| 1,2-Dichloroethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethene | ND | 2.0 | ug/L |
| **cis-1,2-Dichloroethene** | **6.3** | **2.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L |
| 1,2-Dichloropropane | ND | 2.0 | ug/L |
| 1,3-Dichloropropane | ND | 2.0 | ug/L |
| 2,2-Dichloropropane | ND | 10 | ug/L |
| 1,1-Dichloropropene | ND | 2.0 | ug/L |
| **Ethylbenzene** | **18** | **2.0** | **ug/L** |
| Trichlorofluoromethane | ND | 4.0 | ug/L |
| Hexachlorobutadiene | ND | 2.0 | ug/L |
| Isopropylbenzene | ND | 2.0 | ug/L |
| p-Isopropyltoluene | ND | 2.0 | ug/L |
| Methylene chloride | ND | 2.0 | ug/L |
| **Naphthalene** | **5.5** | **2.0** | **ug/L** |

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Cameron-Cole LLC

Client Sample ID: SK-3S

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-022 **Work Order #...:** G3VFA1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **n-Propylbenzene** | **3.2** | **2.0** | **ug/L** |
| Styrene | ND | 2.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 2.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ug/L |
| **Tetrachloroethene** | **4.7** | **2.0** | **ug/L** |
| **Toluene** | **34** | **2.0** | **ug/L** |
| 1,2,3-Trichlorobenzene | ND | 2.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 2.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/L |
| **Trichloroethene** | **32** | **2.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 2.0 | ug/L |
| **1,2,4-Trimethylbenzene** | **52** | **2.0** | **ug/L** |
| **1,3,5-Trimethylbenzene** | **12** | **2.0** | **ug/L** |
| Vinyl chloride | ND | 2.0 | ug/L |
| **o-Xylene** | **37** | **2.0** | **ug/L** |
| **m-Xylene & p-Xylene** | **100** | **4.0** | **ug/L** |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 4.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 97 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 85 | (62 - 128) |
| 4-Bromofluorobenzene | 95 | (78 - 118) |
| Toluene-d8 | 105 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-SW-5

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-023 **Work Order #...:** G3VFD1AA **Matrix.....:** WATER
**Date Sampled...:** 02/03/05 08:00 **Date Received..:** 02/04/05
**Prep Date.....:** 02/15/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5047494 **Analysis Time..:** 18:16
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-SW-5

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-023 **Work Order #...:** G3VFD1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **1.1** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| **1,2,4-Trimethylbenzene** | **1.2** | **1.0** | **ug/L** |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 87 | (62 - 128) |
| 4-Bromofluorobenzene | 87 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-SW-4

GC/MS Volatiles

Lot-Sample #...: D5B040358-024 Work Order #...: G3VFE1AA Matrix.....: WATER
Date Sampled...: 02/03/05 08:20 Date Received..: 02/04/05
Prep Date.....: 02/15/05 Analysis Date..: 02/15/05
Prep Batch #...: 5047494 Analysis Time..: 19:19
Dilution Factor: 1

Method.....: SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-SW-4

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-024 **Work Order #...:** G3VFE1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 101 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 88 | (62 - 128) |
| 4-Bromofluorobenzene | 92 | (78 - 118) |
| Toluene-d8 | 105 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-SW-3

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-025 **Work Order #...:** G3VFG1AA **Matrix.....:** WATER
**Date Sampled...:** 02/03/05 08:35 **Date Received..:** 02/04/05
**Prep Date.....:** 02/15/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5047494 **Analysis Time..:** 19:39
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-SW-3

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-025 **Work Order #...:** G3VFG1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **1.0** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 96 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 87 | (62 - 128) |
| 4-Bromofluorobenzene | 88 | (78 - 118) |
| Toluene-d8 | 103 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-SW-2

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-026 **Work Order #...:** G3VFH1AA **Matrix.....:** WATER
**Date Sampled...:** 02/03/05 08:45 **Date Received...:** 02/04/05
**Prep Date.....:** 02/15/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5047494 **Analysis Time..:** 20:00
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **3.1** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-SW-2

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-026 **Work Order #...:** G3VFH1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **1.6** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 101 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 89 | (62 - 128) |
| 4-Bromofluorobenzene | 89 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: SK-SW-1

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-027 **Work Order #...:** G3VFJ1AA **Matrix.....:** WATER
**Date Sampled...:** 02/03/05 09:00 **Date Received..:** 02/04/05
**Prep Date.....:** 02/15/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5047494 **Analysis Time..:** 20:21
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Benzene** | **4.8** | **1.0** | **ug/L** |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| **cis-1,2-Dichloroethene** | **2.5** | **1.0** | **ug/L** |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| **Naphthalene** | **2.4** | **1.0** | **ug/L** |

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Cameron-Cole LLC

Client Sample ID: SK-SW-1

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-027 **Work Order #...:** G3VFJ1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| **Trichloroethene** | **1.5** | **1.0** | **ug/L** |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 101 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 89 | (62 - 128) |
| 4-Bromofluorobenzene | 90 | (78 - 118) |
| Toluene-d8 | 106 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: TB

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-028 **Work Order #...:** G3VFK1AA **Matrix.....:** WATER
**Date Sampled...:** 02/03/05 **Date Received..:** 02/04/05
**Prep Date.....:** 02/15/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5047494 **Analysis Time..:** 20:42
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: TB

GC/MS Volatiles

**Lot-Sample #...:** D5B040358-028 **Work Order #...:** G3VFK1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 99 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 86 | (62 - 128) |
| 4-Bromofluorobenzene | 91 | (78 - 118) |
| Toluene-d8 | 103 | (77 - 117) |

# QC DATA ASSOCIATION SUMMARY

**D5B040358**

Sample Preparation and Analysis Control Numbers

| SAMPLE# | MATRIX | ANALYTICAL METHOD | LEACH BATCH # | PREP BATCH # | MS RUN# |
|---|---|---|---|---|---|
| 001 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 002 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 003 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 004 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 005 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 006 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 007 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 008 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 009 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 010 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 011 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 012 | WATER | SW846 8260B | | 5048224 | 5048150 |
| 013 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 014 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 015 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 016 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 017 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 018 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 019 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 020 | WATER | SW846 8260B | | 5045546 | 5045322 |
| 021 | WATER | SW846 8260B | | 5047494 | 5047297 |

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# QC DATA ASSOCIATION SUMMARY

**D5B040358**

Sample Preparation and Analysis Control Numbers

| SAMPLE# | MATRIX | ANALYTICAL METHOD | LEACH BATCH # | PREP BATCH # | MS RUN# |
|---|---|---|---|---|---|
| 022 | WATER | SW846 8260B | | 5047494 | 5047297 |
| 023 | WATER | SW846 8260B | | 5047494 | 5047297 |
| 024 | WATER | SW846 8260B | | 5047494 | 5047297 |
| 025 | WATER | SW846 8260B | | 5047494 | 5047297 |
| 026 | WATER | SW846 8260B | | 5047494 | 5047297 |
| 027 | WATER | SW846 8260B | | 5047494 | 5047297 |
| 028 | WATER | SW846 8260B | | 5047494 | 5047297 |

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358
**MB Lot-Sample #:** D5B140000-546
**Work Order #...:** G4EWR1AA
**Matrix.....:** WATER
**Prep Date.....:** 02/12/05
**Analysis Time..:** 08:27
**Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Benzene | ND | 1.0 | ug/L | SW846 8260B |
| Bromobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Bromochloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromoform | ND | 1.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 2.0 | ug/L | SW846 8260B |
| n-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| sec-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| tert-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 1.0 | ug/L | SW846 8260B |
| Chlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Chlorodibromomethane | ND | 1.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 2.0 | ug/L | SW846 8260B |
| Chloroform | ND | 1.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 2.0 | ug/L | SW846 8260B |
| 2-Chlorotoluene | ND | 1.0 | ug/L | SW846 8260B |
| 4-Chlorotoluene | ND | 1.0 | ug/L | SW846 8260B |
| Dibromomethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 2.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 2,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 2.0 | ug/L | SW846 8260B |
| Hexachlorobutadiene | ND | 1.0 | ug/L | SW846 8260B |
| Isopropylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| p-Isopropyltoluene | ND | 1.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 1.0 | ug/L | SW846 8260B |
| Naphthalene | ND | 1.0 | ug/L | SW846 8260B |
| n-Propylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Styrene | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |

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## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G4EWR1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 1.0 | ug/L | SW846 8260B |
| Toluene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 1.0 | ug/L | SW846 8260B |
| o-Xylene | ND | 1.0 | ug/L | SW846 8260B |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L | SW846 8260B |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L | SW846 8260B |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 95 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 85 | (62 - 128) |
| 4-Bromofluorobenzene | 91 | (78 - 118) |
| Toluene-d8 | 103 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358
**MB Lot-Sample #:** D5B160000-494
**Work Order #...:** G4KKN1AA
**Matrix.....:** WATER
**Prep Date.....:** 02/15/05
**Analysis Time..:** 17:05
**Analysis Date..:** 02/15/05
**Prep Batch #...:** 5047494
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Benzene | ND | 1.0 | ug/L | SW846 8260B |
| Bromobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Bromochloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromoform | ND | 1.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 2.0 | ug/L | SW846 8260B |
| n-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| sec-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| tert-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 1.0 | ug/L | SW846 8260B |
| Chlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Chlorodibromomethane | ND | 1.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 2.0 | ug/L | SW846 8260B |
| Chloroform | ND | 1.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 2.0 | ug/L | SW846 8260B |
| 2-Chlorotoluene | ND | 1.0 | ug/L | SW846 8260B |
| 4-Chlorotoluene | ND | 1.0 | ug/L | SW846 8260B |
| Dibromomethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 2.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 2,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 2.0 | ug/L | SW846 8260B |
| Hexachlorobutadiene | ND | 1.0 | ug/L | SW846 8260B |
| Isopropylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| p-Isopropyltoluene | ND | 1.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 1.0 | ug/L | SW846 8260B |
| Naphthalene | ND | 1.0 | ug/L | SW846 8260B |
| n-Propylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Styrene | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |

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## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G4KKN1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 1.0 | ug/L | SW846 8260B |
| Toluene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 1.0 | ug/L | SW846 8260B |
| o-Xylene | ND | 1.0 | ug/L | SW846 8260B |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L | SW846 8260B |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L | SW846 8260B |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 101 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 90 | (62 - 128) |
| 4-Bromofluorobenzene | 92 | (78 - 118) |
| Toluene-d8 | 104 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G4LVW1AA **Matrix.....:** WATER
**MB Lot-Sample #:** D5B170000-224

**Prep Date.....:** 02/16/05 **Analysis Time..:** 09:29
**Analysis Date..:** 02/16/05 **Prep Batch #...:** 5048224
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Benzene | ND | 1.0 | ug/L | SW846 8260B |
| Bromobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Bromochloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromoform | ND | 1.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 2.0 | ug/L | SW846 8260B |
| n-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| sec-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| tert-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 1.0 | ug/L | SW846 8260B |
| Chlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Chlorodibromomethane | ND | 1.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 2.0 | ug/L | SW846 8260B |
| Chloroform | ND | 1.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 2.0 | ug/L | SW846 8260B |
| 2-Chlorotoluene | ND | 1.0 | ug/L | SW846 8260B |
| 4-Chlorotoluene | ND | 1.0 | ug/L | SW846 8260B |
| Dibromomethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 2.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 2,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 2.0 | ug/L | SW846 8260B |
| Hexachlorobutadiene | ND | 1.0 | ug/L | SW846 8260B |
| Isopropylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| p-Isopropyltoluene | ND | 1.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 1.0 | ug/L | SW846 8260B |
| Naphthalene | ND | 1.0 | ug/L | SW846 8260B |
| n-Propylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Styrene | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |

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## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G4LVW1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 1.0 | ug/L | SW846 8260B |
| Toluene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L | SW846 8260B |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L | SW846 8260B |
| o-Xylene | ND | 1.0 | ug/L | SW846 8260B |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 109 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 119 | (62 - 128) |
| 4-Bromofluorobenzene | 104 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G4EWR1AC **Matrix.....:** WATER
**LCS Lot-Sample#:** D5B140000-546
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 08:07
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **1,1-Dichloroethene** | **115** | **(66 - 132)** | **SW846 8260B** |
| **Benzene** | **96** | **(75 - 120)** | **SW846 8260B** |
| **Chlorobenzene** | **104** | **(78 - 118)** | **SW846 8260B** |
| **Toluene** | **103** | **(78 - 118)** | **SW846 8260B** |
| **Trichloroethene** | **97** | **(79 - 122)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 97 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 84 | (62 - 128) |
| 4-Bromofluorobenzene | 92 | (78 - 118) |
| Toluene-d8 | 105 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G4EWR1AC **Matrix.....:** WATER
**LCS Lot-Sample#:** D5B140000-546
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 08:07
**Dilution Factor:** 1

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **10.0** | **11.5** | **ug/L** | **115** | **SW846 8260B** |
| **Benzene** | **10.0** | **9.62** | **ug/L** | **96** | **SW846 8260B** |
| **Chlorobenzene** | **10.0** | **10.4** | **ug/L** | **104** | **SW846 8260B** |
| **Toluene** | **10.0** | **10.3** | **ug/L** | **103** | **SW846 8260B** |
| **Trichloroethene** | **10.0** | **9.69** | **ug/L** | **97** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 97 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 84 | (62 - 128) |
| 4-Bromofluorobenzene | 92 | (78 - 118) |
| Toluene-d8 | 105 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G4KKN1AC **Matrix.....:** WATER
**LCS Lot-Sample#:** D5B160000-494
**Prep Date.....:** 02/15/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5047494 **Analysis Time..:** 16:44
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **1,1-Dichloroethene** | **122** | **(66 - 132)** | **SW846 8260B** |
| **Benzene** | **99** | **(75 - 120)** | **SW846 8260B** |
| **Chlorobenzene** | **100** | **(78 - 118)** | **SW846 8260B** |
| **Toluene** | **103** | **(78 - 118)** | **SW846 8260B** |
| **Trichloroethene** | **100** | **(79 - 122)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 102 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 89 | (62 - 128) |
| 4-Bromofluorobenzene | 91 | (78 - 118) |
| Toluene-d8 | 103 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G4KKN1AC **Matrix.....:** WATER
**LCS Lot-Sample#:** D5B160000-494
**Prep Date.....:** 02/15/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5047494 **Analysis Time..:** 16:44
**Dilution Factor:** 1

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **10.0** | **12.2** | **ug/L** | **122** | **SW846 8260B** |
| **Benzene** | **10.0** | **9.90** | **ug/L** | **99** | **SW846 8260B** |
| **Chlorobenzene** | **10.0** | **9.96** | **ug/L** | **100** | **SW846 8260B** |
| **Toluene** | **10.0** | **10.3** | **ug/L** | **103** | **SW846 8260B** |
| **Trichloroethene** | **10.0** | **10.0** | **ug/L** | **100** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 102 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 89 | (62 - 128) |
| 4-Bromofluorobenzene | 91 | (78 - 118) |
| Toluene-d8 | 103 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G4LVW1AC **Matrix.....:** WATER
**LCS Lot-Sample#:** D5B170000-224
**Prep Date.....:** 02/16/05 **Analysis Date..:** 02/16/05
**Prep Batch #...:** 5048224 **Analysis Time..:** 09:09
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **1,1-Dichloroethene** | **101** | **(66 - 132)** | **SW846 8260B** |
| **Benzene** | **97** | **(75 - 120)** | **SW846 8260B** |
| **Chlorobenzene** | **93** | **(78 - 118)** | **SW846 8260B** |
| **Toluene** | **92** | **(78 - 118)** | **SW846 8260B** |
| **Trichloroethene** | **99** | **(79 - 122)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 108 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 119 | (62 - 128) |
| 4-Bromofluorobenzene | 104 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G4LVW1AC **Matrix.....:** WATER
**LCS Lot-Sample#:** D5B170000-224
**Prep Date.....:** 02/16/05 **Analysis Date..:** 02/16/05
**Prep Batch #...:** 5048224 **Analysis Time..:** 09:09
**Dilution Factor:** 1

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **10.0** | **10.1** | **ug/L** | **101** | **SW846 8260B** |
| **Benzene** | **10.0** | **9.69** | **ug/L** | **97** | **SW846 8260B** |
| **Chlorobenzene** | **10.0** | **9.25** | **ug/L** | **93** | **SW846 8260B** |
| **Toluene** | **10.0** | **9.21** | **ug/L** | **92** | **SW846 8260B** |
| **Trichloroethene** | **10.0** | **9.93** | **ug/L** | **99** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 108 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 119 | (62 - 128) |
| 4-Bromofluorobenzene | 104 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G3VDV1AC-MS **Matrix.....:** WATER
**MS Lot-Sample #:** D5B040358-001 G3VDV1AD-MSD
**Date Sampled...:** 02/02/05 08:15 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 09:09
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **116** | **(66 - 132)** | | | **SW846 8260B** |
| | **118** | **(66 - 132)** | **1.8** | **(0-26)** | **SW846 8260B** |
| **Benzene** | **94** | **(75 - 120)** | | | **SW846 8260B** |
| | **96** | **(75 - 120)** | **1.6** | **(0-21)** | **SW846 8260B** |
| **Chlorobenzene** | **101** | **(78 - 118)** | | | **SW846 8260B** |
| | **104** | **(78 - 118)** | **2.4** | **(0-20)** | **SW846 8260B** |
| **Toluene** | **102** | **(78 - 118)** | | | **SW846 8260B** |
| | **105** | **(78 - 118)** | **2.3** | **(0-22)** | **SW846 8260B** |
| **Trichloroethene** | **89** | **(79 - 122)** | | | **SW846 8260B** |
| | **93** | **(79 - 122)** | **0.73** | **(0-23)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 96 | (73 - 118) |
| | 94 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 80 | (62 - 128) |
| | 82 | (62 - 128) |
| 4-Bromofluorobenzene | 90 | (78 - 118) |
| | 91 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |
| | 103 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G3VDV1AC-MS **Matrix.....:** WATER
**MS Lot-Sample #:** D5B040358-001 G3VDV1AD-MSD
**Date Sampled...:** 02/02/05 08:15 **Date Received..:** 02/04/05
**Prep Date.....:** 02/12/05 **Analysis Date..:** 02/12/05
**Prep Batch #...:** 5045546 **Analysis Time..:** 09:09
**Dilution Factor:** 1

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **ND** | **10.0** | **11.6** | **ug/L** | **116** | | **SW846 8260B** |
| | **ND** | **10.0** | **11.8** | **ug/L** | **118** | **1.8** | **SW846 8260B** |
| **Benzene** | **ND** | **10.0** | **9.43** | **ug/L** | **94** | | **SW846 8260B** |
| | **ND** | **10.0** | **9.58** | **ug/L** | **96** | **1.6** | **SW846 8260B** |
| **Chlorobenzene** | **ND** | **10.0** | **10.1** | **ug/L** | **101** | | **SW846 8260B** |
| | **ND** | **10.0** | **10.4** | **ug/L** | **104** | **2.4** | **SW846 8260B** |
| **Toluene** | **ND** | **10.0** | **10.2** | **ug/L** | **102** | | **SW846 8260B** |
| | **ND** | **10.0** | **10.5** | **ug/L** | **105** | **2.3** | **SW846 8260B** |
| **Trichloroethene** | **39** | **10.0** | **47.7** | **ug/L** | **89** | | **SW846 8260B** |
| | **39** | **10.0** | **48.0** | **ug/L** | **93** | **0.73** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 96 | (73 - 118) |
| | 94 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 80 | (62 - 128) |
| | 82 | (62 - 128) |
| 4-Bromofluorobenzene | 90 | (78 - 118) |
| | 91 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |
| | 103 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G3VE91AC-MS **Matrix.....:** WATER
**MS Lot-Sample #:** D5B040358-021 G3VE91AD-MSD
**Date Sampled...:** 02/02/05 16:15 **Date Received..:** 02/04/05
**Prep Date.....:** 02/15/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5047494 **Analysis Time..:** 18:37
**Dilution Factor:** 2

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **120** | **(66 - 132)** | | | **SW846 8260B** |
| | **113** | **(66 - 132)** | **6.0** | **(0-26)** | **SW846 8260B** |
| **Benzene** | **96** | **(75 - 120)** | | | **SW846 8260B** |
| | **95** | **(75 - 120)** | **1.0** | **(0-21)** | **SW846 8260B** |
| **Chlorobenzene** | **100** | **(78 - 118)** | | | **SW846 8260B** |
| | **102** | **(78 - 118)** | **1.6** | **(0-20)** | **SW846 8260B** |
| **Toluene** | **104** | **(78 - 118)** | | | **SW846 8260B** |
| | **104** | **(78 - 118)** | **0.48** | **(0-22)** | **SW846 8260B** |
| **Trichloroethene** | **91** | **(79 - 122)** | | | **SW846 8260B** |
| | **37 a** | **(79 - 122)** | **11** | **(0-23)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| | 100 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 84 | (62 - 128) |
| | 85 | (62 - 128) |
| 4-Bromofluorobenzene | 89 | (78 - 118) |
| | 90 | (78 - 118) |
| Toluene-d8 | 104 | (77 - 117) |
| | 105 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G3VE91AC-MS **Matrix.....:** WATER
**MS Lot-Sample #:** D5B040358-021 G3VE91AD-MSD
**Date Sampled...:** 02/02/05 16:15 **Date Received..:** 02/04/05
**Prep Date.....:** 02/15/05 **Analysis Date..:** 02/15/05
**Prep Batch #...:** 5047494 **Analysis Time..:** 18:37
**Dilution Factor:** 2

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **ND** | **20.0** | **24.0** | **ug/L** | **120** | | **SW846 8260B** |
| | **ND** | **20.0** | **22.6** | **ug/L** | **113** | **6.0** | **SW846 8260B** |
| **Benzene** | **ND** | **20.0** | **19.1** | **ug/L** | **96** | | **SW846 8260B** |
| | **ND** | **20.0** | **18.9** | **ug/L** | **95** | **1.0** | **SW846 8260B** |
| **Chlorobenzene** | **ND** | **20.0** | **20.0** | **ug/L** | **100** | | **SW846 8260B** |
| | **ND** | **20.0** | **20.3** | **ug/L** | **102** | **1.6** | **SW846 8260B** |
| **Toluene** | **ND** | **20.0** | **20.8** | **ug/L** | **104** | | **SW846 8260B** |
| | **ND** | **20.0** | **20.7** | **ug/L** | **104** | **0.48** | **SW846 8260B** |
| **Trichloroethene** | **88** | **20.0** | **106** | **ug/L** | **91** | | **SW846 8260B** |
| | **88** | **20.0** | **95.2** | **ug/L** | **37 a** | **11** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 98 | (73 - 118) |
| | 100 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 84 | (62 - 128) |
| | 85 | (62 - 128) |
| 4-Bromofluorobenzene | 89 | (78 - 118) |
| | 90 | (78 - 118) |
| Toluene-d8 | 104 | (77 - 117) |
| | 105 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G3QHK1AC-MS **Matrix.....:** WATER
**MS Lot-Sample #:** D5B030338-007 G3QHK1AD-MSD
**Date Sampled...:** 02/01/05 08:00 **Date Received..:** 02/03/05
**Prep Date.....:** 02/16/05 **Analysis Date..:** 02/16/05
**Prep Batch #...:** 5048224 **Analysis Time..:** 11:27
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **97** | **(66 - 132)** | | | **SW846 8260B** |
| | **104** | **(66 - 132)** | **7.6** | **(0-26)** | **SW846 8260B** |
| **Benzene** | **94** | **(75 - 120)** | | | **SW846 8260B** |
| | **98** | **(75 - 120)** | **3.7** | **(0-21)** | **SW846 8260B** |
| **Chlorobenzene** | **90** | **(78 - 118)** | | | **SW846 8260B** |
| | **92** | **(78 - 118)** | **2.6** | **(0-20)** | **SW846 8260B** |
| **Toluene** | **89** | **(78 - 118)** | | | **SW846 8260B** |
| | **91** | **(78 - 118)** | **1.7** | **(0-22)** | **SW846 8260B** |
| **Trichloroethene** | **95** | **(79 - 122)** | | | **SW846 8260B** |
| | **100** | **(79 - 122)** | **5.5** | **(0-23)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| ibromofluoromethane | 110 | (73 - 118) |
| | 105 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 123 | (62 - 128) |
| | 117 | (62 - 128) |
| 4-Bromofluorobenzene | 106 | (78 - 118) |
| | 105 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |
| | 100 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** D5B040358 **Work Order #...:** G3QHK1AC-MS **Matrix.....:** WATER
**MS Lot-Sample #:** D5B030338-007 G3QHK1AD-MSD
**Date Sampled...:** 02/01/05 08:00 **Date Received..:** 02/03/05
**Prep Date.....:** 02/16/05 **Analysis Date..:** 02/16/05
**Prep Batch #...:** 5048224 **Analysis Time..:** 11:27
**Dilution Factor:** 1

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **ND** | **10.0** | **9.66** | **ug/L** | **97** | | **SW846 8260B** |
| | **ND** | **10.0** | **10.4** | **ug/L** | **104** | **7.6** | **SW846 8260B** |
| **Benzene** | **ND** | **10.0** | **9.40** | **ug/L** | **94** | | **SW846 8260B** |
| | **ND** | **10.0** | **9.76** | **ug/L** | **98** | **3.7** | **SW846 8260B** |
| **Chlorobenzene** | **ND** | **10.0** | **8.98** | **ug/L** | **90** | | **SW846 8260B** |
| | **ND** | **10.0** | **9.21** | **ug/L** | **92** | **2.6** | **SW846 8260B** |
| **Toluene** | **ND** | **10.0** | **8.90** | **ug/L** | **89** | | **SW846 8260B** |
| | **ND** | **10.0** | **9.05** | **ug/L** | **91** | **1.7** | **SW846 8260B** |
| **Trichloroethene** | **ND** | **10.0** | **9.49** | **ug/L** | **95** | | **SW846 8260B** |
| | **ND** | **10.0** | **10.0** | **ug/L** | **100** | **5.5** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 110 | (73 - 118) |
| | 105 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 123 | (62 - 128) |
| | 117 | (62 - 128) |
| 4-Bromofluorobenzene | 106 | (78 - 118) |
| | 105 | (78 - 118) |
| Toluene-d8 | 102 | (77 - 117) |
| | 100 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# HOLD TIME REPORT

Cameron-Cole LLC

Wichita, KS

**HOLD TIME REPORT**

**Lab:** GCMS VOA

| Lab ID # | Well ID | Collection Date | Method | Ext Dif | Ana Dif | Ext Hold | Ana Hold | Extraction Date | Analysis Date | Method Description |
|---|---|---|---|---|---|---|---|---|---|---|
| D5B040358001 | SK-8D | 02/02/05 08:15 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 08:48 | VOA |
| D5B040358002 | DUP-C | 02/02/05 08:15 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 09:50 | VOA |
| D5B040358003 | SK-8S | 02/02/05 08:30 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 10:11 | VOA |
| D5B040358004 | SK-1D | 02/02/05 08:50 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 10:32 | VOA |
| D5B040358005 | DUP-D | 02/02/05 08:50 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 10:53 | VOA |
| D5B040358006 | SK-1S | 02/02/05 09:15 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 11:14 | VOA |
| D5B040358007 | FB-02 | 02/02/05 12:00 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 11:34 | VOA |
| D5B040358008 | SK-6S | 02/02/05 09:55 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 11:55 | VOA |
| D5B040358009 | SK-11S | 02/02/05 10:15 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 12:16 | VOA |
| D[illegible]0358010 | SK-10S | 02/02/05 10:35 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 12:37 | VOA |
| D5B040358011 | SK-5D | 02/02/05 10:55 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 12:57 | VOA |
| D5B040358012 | SK-5S | 02/02/05 11:15 | | | | | | | | |
| | | | 8260B | | 14 | | 14 | | 02/16/05 10:28 | VOA |
| D5B040358013 | SK-2D | 02/02/05 12:00 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 13:39 | VOA |
| D5B040358014 | SK-2S | 02/02/05 12:20 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 14:00 | VOA |
| D5B040358015 | FB-04 | 02/02/05 14:00 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 14:21 | VOA |
| D5B040358016 | HRI-03 | 02/02/05 14:00 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 14:42 | VOA |
| D5B040358017 | SK-4D | 02/02/05 14:25 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 15:03 | VOA |
| D5B040358018 | SK-4S | 02/02/05 14:45 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 15:23 | VOA |
| D5B040358019 | SK-12D | 02/02/05 15:15 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 15:44 | VOA |
| D5B040358020 | SK-12S | 02/02/05 15:40 | | | | | | | | |
| | | | 8260B | | 10 | | 14 | | 02/12/05 16:05 | VOA |
| D5B040358021 | SK-3D | 02/02/05 16:15 | | | | | | | | |
| | | | 8260B | | 13 | | 14 | | 02/15/05 17:34 | VOA |

Cameron-Cole LLC

Wichita, KS

HOLD TIME REPORT

Lab: GCMS VOA

| Lab ID # | Well ID | Collection Date | Method | Ext Dif | Ana Dif | Ext Hold | Ana Hold | Extraction Date | Analysis Date | Method Description |
|---|---|---|---|---|---|---|---|---|---|---|
| D5B040358022 | SK-3S | 02/02/05 16:30 | | | | | | | | |
| | | | 8260B | | 14 | | 14 | | 02/16/05 01:13 | VOA |
| D5B040358023 | SK-SW-5 | 02/03/05 08:00 | | | | | | | | |
| | | | 8260B | | 12 | | 14 | | 02/15/05 18:16 | VOA |
| D5B040358024 | SK-SW-4 | 02/03/05 08:20 | | | | | | | | |
| | | | 8260B | | 12 | | 14 | | 02/15/05 19:19 | VOA |
| D5B040358025 | SK-SW-3 | 02/03/05 08:35 | | | | | | | | |
| | | | 8260B | | 12 | | 14 | | 02/15/05 19:39 | VOA |
| D5B040358026 | SK-SW-2 | 02/03/05 08:45 | | | | | | | | |
| | | | 8260B | | 12 | | 14 | | 02/15/05 20:00 | VOA |
| D5B040358027 | SK-SW-1 | 02/03/05 09:00 | | | | | | | | |
| | | | 8260B | | 12 | | 14 | | 02/15/05 20:21 | VOA |
| D5B040358028 | TB | 02/03/05 00:00 | | | | | | | | |
| | | | 8260B | | 12 | | 14 | | 02/15/05 20:42 | VOA |

[redacted]

# Chain of Custody Record

3.3°C
DS
2/4/05

SEVERN TRENT **STL**

**Severn Trent Laboratories, Inc.**

**STL Denver**
4955 Yarrow Street
Arvada, CO 80002

89

STL-4124 (0901)

| Client | Project Manager | Date | Chain of Custody Number |
|---|---|---|---|
| Cameron-Cole | Brian Martinek | 2/2/05 | 313359 |

| Address | Telephone Number (Area Code)/Fax Number | Lab Number | Page 1 of 2 |
|---|---|---|---|
| 5777 Central Ave, Suite 100 | 303-938-5500 / 303-938-5520 | | |

| City | State | Zip Code | Site Contact | Lab Contact |
|---|---|---|---|---|
| Boulder | CO | 80301 | | |

| Project Name and Location (State) | Carrier/Waybill Number |
|---|---|
| CH - Wichita, KS | |

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Matrix: Aqueous | Matrix: Sed. | Matrix: Soil | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | 8260B-VOC | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SK-8D | 2/2/05 | 8:15 | | X | | | | | | X | | | 3 | |
| 8DUP-C | | 8:15 | | X | | | | | | X | | | 3 | |
| SK-8S | | 8:30 | | X | | | | | | X | | | 3 | |
| SK-1D | | 8:50 | | X | | | | | | X | | | 3 | |
| DUP-D | | 8:50 | | X | | | | | | X | | | 3 | |
| SK-1S | | 9:15 | | X | | | | | | X | | | 3 | |
| FB-02 | | 12:00 | | X | | | | | | X | | | 3 | |
| SK-6S | | 9:55 | | X | | | | | | X | | | 3 | |
| SK-11S | | 10:15 | | X | | | | | | X | | | 3 | |
| SK-10S | | 10:35 | | X | | | | | | X | | | 3 | |
| SK-5D | | 10:55 | | X | | | | | | X | | | 3 | |
| SK-5S | | 11:15 | | X | | | | | | X | | | 3 | |

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Normal TAT

QC Requirements (Specify)

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: A. Schmidt | 2/3/05 | 11:12 | 1. Received By: [signature] | 2/4/05 | 0930 |
| 2. Relinquished By | | | 2. Received By | | |
| 3. Relinquished By | | | 3. Received By | | |

Comments

DISTRIBUTIO[redacted]ITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

# Chain of Custody Record

SEVERN TRENT **STL**
**Severn Trent Laboratories, Inc.**

**STL Denver**
4955 Yarrow Street
Arvada, CO 80002

90

STL-4124 (0901)

| | | | |
|---|---|---|---|
| Client: CAMERON-COLE | Project Manager: Brian Martinek | Date: 2/2/05 | Chain of Custody Number: 313361 |
| Address: 5777 Central Ave. Suite 100 | Telephone Number (Area Code)/Fax Number: 303-938-5500 / 5520 | Lab Number: | Page 2 of 2 |
| City: Boulder; State: CO; Zip Code: 80301 | Site Contact: | Lab Contact: Cheryl Stearns | |
| Project Name and Location (State): CH-WICHITA | Carrier/Waybill Number: | | |
| Contract/Purchase Order/Quote No.: 1808 | | | |

Analysis (Attach list if more space is needed)

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | 8260B-VOL | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SK-2D | 2/2/05 | 12:00 | | X | | | | | | X | | | 3 | |
| SK-2S | ↓ | 12:20 | | X | | | | | | X | | | 3 | |
| FB-04 | | 14:00 | | X | | | | | | X | | | 3 | |
| HR1-03 | | 1400 | | X | | | | | | X | | | 3 | |
| SK-4D | | 1425 | | X | | | | | | X | | | 3 | |
| SK-4S | | 14:45 | | X | | | | | | X | | | 3 | |
| SK-12D | | 15:15 | | X | | | | | | X | | | 3 | |
| SK-12S | | 15:40 | | X | | | | | | X | | | 3 | |
| SK-3D | | 16:15 | | X | | | | | | X | | | 3 | |
| SK-3S | ↓ | 16:30 | | X | | | | | | X | | | 3 | |
| SK-SW-5 | 2/3/05 | 8:00 | | X | | | | | | X | | | 3 | |
| SK-SW-4 | ↓ | 8:20 | | X | | | | | | X | | | 3 | |

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [X] Other NTAT

QC Requirements (Specify)

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: A. Schmidt | 2/3/05 | 11:12 | 1. Received By: [signature] | 2/4/05 | 0930 |
| 2. Relinquished By | | | 2. Received By | | |
| 3. Relinquished By | | | 3. Received By | | |

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

# Chain of Custody Record

STL-4124 (0901)

SEVERN TRENT **STL**

**Severn Trent Laboratories, Inc.**

**STL Denver**
4955 Yarrow Street
Arvada, CO 80002

| | |
|---|---|
| Client | CAMERON-COLE |
| Project Manager | Brian Martinek |
| Date | 2/3/05 |
| Chain of Custody Number | 313362 |
| Address | 5777 Central Ave Suite 100 |
| Telephone Number (Area Code)/Fax Number | 303-938-5500/5520 |
| Lab Number | |
| Page | 3 of 3 |
| City | Boulder |
| State | CO |
| Zip Code | 80301 |
| Site Contact | |
| Lab Contact | Sheryl Skelman |
| Project Name and Location (State) | CH - WICHITA |
| Carrier/Waybill Number | |
| Contract/Purchase Order/Quote No. | 1800 |

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | | Analysis (Attach list if more space is needed): 8260B-VOC | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SK-SW-3 | 2/3/05 | 8:35 | | X | | | | | | | X | | | | 3 | |
| SK-SW-2 | ↓ | 8:45 | | X | | | | | | | X | | | | 3 | |
| SK-SW-1 | ↓ | 9:00 | | X | | | | | | | X | | | | 3 | |
| TB | 1/25/05 | — | | X | | | | | | | X | | | | 2 | |

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other NTAT

QC Requirements (Specify)

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: A. Schmidt | 2/3/05 | 11:12 | 1. Received By: [signature] | 2/4/05 | 0930 |
| 2. Relinquished By | | | 2. Received By | | |
| 3. Relinquished By | | | 3. Received By | | |

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

**STL Denver**
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

# ANALYTICAL REPORT

**GROUNDWATER**

**CLEAN HARBORS WICHITA**

**Lot #: D5C180252**

**Janette Wilson**

**Cameron-Cole LLC**
**5777 Central Avenue, Suite 100**
**Boulder, CO 80301**

**cc: John Arbuthnot**

**SEVERN TRENT LABORATORIES, INC.**

**Cheryl Sklenar**
**Project Manager**

**April 5, 2005**

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- **Method/Analyst Summary**
- **Lot Sample Summary**
- **Analytical Results**
- **QC Data Association Summary**
- **Hold Time Report**
- **Chain-of-Custody**

# CASE NARRATIVE

| | |
|---|---|
| Client Name: | Clean Harbors Wichita |
| Project Name: | Groundwater |
| Project Number: | |
| Sample Delivery Group: | D5C180252 |
| Narrative Date: | 04/05/05 |

**Sample Receipt**

- The following report contains the analytical results for one sample and one trip blank, submitted to STL Denver by Cameron-Cole, Inc., in support of the Clean Harbors Wichita GW Program. The samples were received intact, at a temperature of 2.4°C, on March 18, 2005, according to documented sample acceptance procedures. Results for the following analyses can be found in this report: GC/MS Volatiles.

**GC/MS Volatiles**

- Sample analysis revealed detected target analytes at or above Clean Harbors (Wichita)'s RLs, as detailed in the Executive Summary-Detection Highlights Report. The samples were analyzed within holding time and without incident.

These data and reporting limits are being used specifically to meet the needs of this project. All RLs are supported by STL Denver's Method Detection Limits (MDLs). Reporting limits in this report are at or above the MDL.

I certify that the data presented in this report are accurate, complete, and meets the minimum quality assurance standards in 40-CFR 136, 40-CFR 141, and/or SW846. The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. An assessment of the quality of the data, noting any exceptions, outliers, and/or problems encountered have been narrated herein.

Cheryl Sklenar
Project Manager

4/5/05
Date

# EXECUTIVE SUMMARY - Detection Highlights

D5C180252

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **SK-13S 03/17/05 14:20 001** | | | | |
| 1,1-Dichloroethane | 6.7 | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | 1.2 | 1.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | 1.3 | 1.0 | ug/L | SW846 8260B |

# METHODS SUMMARY

D5C180252

| PARAMETER | ANALYTICAL METHOD | PREPARATION METHOD |
|---|---|---|
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030B/826 |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# METHOD / ANALYST SUMMARY

D5C180252

| ANALYTICAL METHOD | ANALYST | ANALYST ID |
|---|---|---|
| SW846 8260B | Heather Despres | 009250 |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

**D5C180252**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| G6JNE | 001 | SK-13S | 03/17/05 | 14:20 |
| G6JNL | 002 | TRIP BLANK | 03/17/05 | |

**NOTE(S):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Cameron-Cole LLC

Client Sample ID: SK-13S

GC/MS Volatiles

**Lot-Sample #...:** D5C180252-001 **Work Order #...:** G6JNE1AA **Matrix.....:** WATER
**Date Sampled...:** 03/17/05 14:20 **Date Received..:** 03/18/05
**Prep Date.....:** 03/24/05 **Analysis Date..:** 03/24/05
**Prep Batch #...:** 5087353 **Analysis Time..:** 15:52
**Dilution Factor:** 1

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| **1,1-Dichloroethane** | **6.7** | **1.0** | **ug/L** |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: SK-13S

GC/MS Volatiles

**Lot-Sample #...:** D5C180252-001 **Work Order #...:** G6JNE1AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| **Tetrachloroethene** | **1.2** | **1.0** | **ug/L** |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| **1,1,1-Trichloroethane** | **1.3** | **1.0** | **ug/L** |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 107 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 102 | (62 - 128) |
| 4-Bromofluorobenzene | 90 | (78 - 118) |
| Toluene-d8 | 104 | (77 - 117) |

Cameron-Cole LLC

Client Sample ID: TRIP BLANK

GC/MS Volatiles

**Lot-Sample #...:** D5C180252-002
**Date Sampled...:** 03/17/05
**Prep Date.....:** 03/24/05
**Prep Batch #...:** 5087353
**Dilution Factor:** 1

**Work Order #...:** G6JNL1AA
**Date Received..:** 03/18/05
**Analysis Date..:** 03/24/05
**Analysis Time..:** 16:13

**Matrix.....:** WATER

**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Benzene | ND | 1.0 | ug/L |
| Bromobenzene | ND | 1.0 | ug/L |
| Bromochloromethane | ND | 1.0 | ug/L |
| Bromodichloromethane | ND | 1.0 | ug/L |
| Bromoform | ND | 1.0 | ug/L |
| Bromomethane | ND | 2.0 | ug/L |
| n-Butylbenzene | ND | 1.0 | ug/L |
| sec-Butylbenzene | ND | 1.0 | ug/L |
| tert-Butylbenzene | ND | 1.0 | ug/L |
| Carbon tetrachloride | ND | 1.0 | ug/L |
| Chlorobenzene | ND | 1.0 | ug/L |
| Chlorodibromomethane | ND | 1.0 | ug/L |
| Chloroethane | ND | 2.0 | ug/L |
| Chloroform | ND | 1.0 | ug/L |
| Chloromethane | ND | 2.0 | ug/L |
| 2-Chlorotoluene | ND | 1.0 | ug/L |
| 4-Chlorotoluene | ND | 1.0 | ug/L |
| Dibromomethane | ND | 1.0 | ug/L |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L |
| Dichlorodifluoromethane | ND | 2.0 | ug/L |
| 1,1-Dichloroethane | ND | 1.0 | ug/L |
| 1,2-Dichloroethane | ND | 1.0 | ug/L |
| 1,1-Dichloroethene | ND | 1.0 | ug/L |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L |
| 1,2-Dichloropropane | ND | 1.0 | ug/L |
| 1,3-Dichloropropane | ND | 1.0 | ug/L |
| 2,2-Dichloropropane | ND | 5.0 | ug/L |
| 1,1-Dichloropropene | ND | 1.0 | ug/L |
| Ethylbenzene | ND | 1.0 | ug/L |
| Trichlorofluoromethane | ND | 2.0 | ug/L |
| Hexachlorobutadiene | ND | 1.0 | ug/L |
| Isopropylbenzene | ND | 1.0 | ug/L |
| p-Isopropyltoluene | ND | 1.0 | ug/L |
| Methylene chloride | ND | 1.0 | ug/L |
| Naphthalene | ND | 1.0 | ug/L |

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Cameron-Cole LLC

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: D5C180252-002 Work Order #...: G6JNL1AA Matrix.....: WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| n-Propylbenzene | ND | 1.0 | ug/L |
| Styrene | ND | 1.0 | ug/L |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L |
| Tetrachloroethene | ND | 1.0 | ug/L |
| Toluene | ND | 1.0 | ug/L |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L |
| Trichloroethene | ND | 1.0 | ug/L |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L |
| Vinyl chloride | ND | 1.0 | ug/L |
| o-Xylene | ND | 1.0 | ug/L |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 103 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 103 | (62 - 128) |
| 4-Bromofluorobenzene | 90 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |

# QC DATA ASSOCIATION SUMMARY

**D5C180252**

Sample Preparation and Analysis Control Numbers

| SAMPLE# | MATRIX | ANALYTICAL METHOD | LEACH BATCH # | PREP BATCH # | MS RUN# |
|---|---|---|---|---|---|
| 001 | WATER | SW846 8260B | | 5087353 | 5087205 |
| 002 | WATER | SW846 8260B | | 5087353 | 5087205 |

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5C180252 **Work Order #...:** G66K31AA **Matrix.....:** WATER
**MB Lot-Sample #:** D5C280000-353

**Prep Date.....:** 03/24/05 **Analysis Time..:** 08:34
**Analysis Date..:** 03/24/05 **Prep Batch #...:** 5087353
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Benzene | ND | 1.0 | ug/L | SW846 8260B |
| Bromochloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromodichloromethane | ND | 1.0 | ug/L | SW846 8260B |
| Bromoform | ND | 1.0 | ug/L | SW846 8260B |
| Bromomethane | ND | 2.0 | ug/L | SW846 8260B |
| Carbon tetrachloride | ND | 1.0 | ug/L | SW846 8260B |
| Chlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Chlorodibromomethane | ND | 1.0 | ug/L | SW846 8260B |
| Chloroethane | ND | 2.0 | ug/L | SW846 8260B |
| Chloroform | ND | 1.0 | ug/L | SW846 8260B |
| Chloromethane | ND | 2.0 | ug/L | SW846 8260B |
| Dibromomethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| Dichlorodifluoromethane | ND | 2.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | SW846 8260B |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| 2,2-Dichloropropane | ND | 5.0 | ug/L | SW846 8260B |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | SW846 8260B |
| Ethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| Trichlorofluoromethane | ND | 2.0 | ug/L | SW846 8260B |
| Methylene chloride | ND | 1.0 | ug/L | SW846 8260B |
| Styrene | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Tetrachloroethene | ND | 1.0 | ug/L | SW846 8260B |
| Toluene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trichloro-benzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | SW846 8260B |
| Trichloroethene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | SW846 8260B |
| Vinyl chloride | ND | 1.0 | ug/L | SW846 8260B |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 2.0 | ug/L | SW846 8260B |

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## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** D5C180252 **Work Order #...:** G66K31AA **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ug/L | SW846 8260B |
| Bromobenzene | ND | 1.0 | ug/L | SW846 8260B |
| n-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| sec-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| tert-Butylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| 2-Chlorotoluene | ND | 1.0 | ug/L | SW846 8260B |
| 4-Chlorotoluene | ND | 1.0 | ug/L | SW846 8260B |
| Hexachlorobutadiene | ND | 1.0 | ug/L | SW846 8260B |
| Isopropylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| p-Isopropyltoluene | ND | 1.0 | ug/L | SW846 8260B |
| Naphthalene | ND | 1.0 | ug/L | SW846 8260B |
| n-Propylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | SW846 8260B |
| o-Xylene | ND | 1.0 | ug/L | SW846 8260B |
| m-Xylene & p-Xylene | ND | 2.0 | ug/L | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 104 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 101 | (62 - 128) |
| 4-Bromofluorobenzene | 88 | (78 - 118) |
| Toluene-d8 | 98 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5C180252 **Work Order #...:** G66K31AC-LCS **Matrix.....:** WATER
**LCS Lot-Sample#:** D5C280000-353 G66K31AD-LCSD
**Prep Date.....:** 03/24/05 **Analysis Date..:** 03/24/05
**Prep Batch #...:** 5087353 **Analysis Time..:** 07:52
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **110** | **(66 - 132)** | | | **SW846 8260B** |
| | **109** | **(66 - 132)** | **1.1** | **(0-26)** | **SW846 8260B** |
| **Benzene** | **96** | **(75 - 120)** | | | **SW846 8260B** |
| | **94** | **(75 - 120)** | **1.7** | **(0-21)** | **SW846 8260B** |
| **Chlorobenzene** | **106** | **(78 - 118)** | | | **SW846 8260B** |
| | **102** | **(78 - 118)** | **3.8** | **(0-20)** | **SW846 8260B** |
| **Toluene** | **107** | **(78 - 118)** | | | **SW846 8260B** |
| | **103** | **(78 - 118)** | **3.5** | **(0-22)** | **SW846 8260B** |
| **Trichloroethene** | **101** | **(79 - 122)** | | | **SW846 8260B** |
| | **100** | **(79 - 122)** | **1.1** | **(0-23)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 102 | (73 - 118) |
| | 102 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 98 | (62 - 128) |
| | 99 | (62 - 128) |
| 4-Bromofluorobenzene | 91 | (78 - 118) |
| | 89 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |
| | 96 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

**Client Lot #...:** D5C180252 **Work Order #...:** G66K31AC-LCS **Matrix.....:** WATER
**LCS Lot-Sample#:** D5C280000-353 G66K31AD-LCSD
**Prep Date.....:** 03/24/05 **Analysis Date..:** 03/24/05
**Prep Batch #...:** 5087353 **Analysis Time..:** 07:52
**Dilution Factor:** 1

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | RPD | METHOD |
|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **10.0** | **11.0** | **ug/L** | **110** | | **SW846 8260B** |
| | **10.0** | **10.9** | **ug/L** | **109** | **1.1** | **SW846 8260B** |
| **Benzene** | **10.0** | **9.57** | **ug/L** | **96** | | **SW846 8260B** |
| | **10.0** | **9.40** | **ug/L** | **94** | **1.7** | **SW846 8260B** |
| **Chlorobenzene** | **10.0** | **10.6** | **ug/L** | **106** | | **SW846 8260B** |
| | **10.0** | **10.2** | **ug/L** | **102** | **3.8** | **SW846 8260B** |
| **Toluene** | **10.0** | **10.7** | **ug/L** | **107** | | **SW846 8260B** |
| | **10.0** | **10.3** | **ug/L** | **103** | **3.5** | **SW846 8260B** |
| **Trichloroethene** | **10.0** | **10.1** | **ug/L** | **101** | | **SW846 8260B** |
| | **10.0** | **9.97** | **ug/L** | **100** | **1.1** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 102 | (73 - 118) |
| | 102 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 98 | (62 - 128) |
| | 99 | (62 - 128) |
| 4-Bromofluorobenzene | 91 | (78 - 118) |
| | 89 | (78 - 118) |
| Toluene-d8 | 101 | (77 - 117) |
| | 96 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** D5C180252 **Work Order #...:** G6J1C1DA-MS **Matrix.....:** WATER
**MS Lot-Sample #:** D5C180286-001 G6J1C1DC-MSD
**Date Sampled...:** 03/16/05 09:30 **Date Received..:** 03/18/05
**Prep Date.....:** 03/24/05 **Analysis Date..:** 03/24/05
**Prep Batch #...:** 5087353 **Analysis Time..:** 10:40
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **97** | **(66 - 132)** | | | **SW846 8260B** |
| | **95** | **(66 - 132)** | **1.3** | **(0-26)** | **SW846 8260B** |
| **Benzene** | **89** | **(75 - 120)** | | | **SW846 8260B** |
| | **89** | **(75 - 120)** | **0.56** | **(0-21)** | **SW846 8260B** |
| **Chlorobenzene** | **100** | **(78 - 118)** | | | **SW846 8260B** |
| | **98** | **(78 - 118)** | **1.3** | **(0-20)** | **SW846 8260B** |
| **Toluene** | **97** | **(78 - 118)** | | | **SW846 8260B** |
| | **92** | **(78 - 118)** | **5.6** | **(0-22)** | **SW846 8260B** |
| **Trichloroethene** | **89** | **(79 - 122)** | | | **SW846 8260B** |
| | **89** | **(79 - 122)** | **0.34** | **(0-23)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 108 | (73 - 118) |
| | 107 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 109 | (62 - 128) |
| | 112 | (62 - 128) |
| 4-Bromofluorobenzene | 98 | (78 - 118) |
| | 94 | (78 - 118) |
| Toluene-d8 | 96 | (77 - 117) |
| | 95 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** D5C180252 **Work Order #...:** G6J1C1DA-MS **Matrix.....:** WATER
**MS Lot-Sample #:** D5C180286-001 G6J1C1DC-MSD
**Date Sampled...:** 03/16/05 09:30 **Date Received..:** 03/18/05
**Prep Date.....:** 03/24/05 **Analysis Date..:** 03/24/05
**Prep Batch #...:** 5087353 **Analysis Time..:** 10:40
**Dilution Factor:** 1

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **ND** | **10.0** | **9.65** | **ug/L** | **97** | | **SW846 8260B** |
| | **ND** | **10.0** | **9.53** | **ug/L** | **95** | **1.3** | **SW846 8260B** |
| **Benzene** | **ND** | **10.0** | **8.88** | **ug/L** | **89** | | **SW846 8260B** |
| | **ND** | **10.0** | **8.93** | **ug/L** | **89** | **0.56** | **SW846 8260B** |
| **Chlorobenzene** | **ND** | **10.0** | **9.97** | **ug/L** | **100** | | **SW846 8260B** |
| | **ND** | **10.0** | **9.84** | **ug/L** | **98** | **1.3** | **SW846 8260B** |
| **Toluene** | **ND** | **10.0** | **9.68** | **ug/L** | **97** | | **SW846 8260B** |
| | **ND** | **10.0** | **9.15** | **ug/L** | **92** | **5.6** | **SW846 8260B** |
| **Trichloroethene** | **ND** | **10.0** | **8.87** | **ug/L** | **89** | | **SW846 8260B** |
| | **ND** | **10.0** | **8.90** | **ug/L** | **89** | **0.34** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Dibromofluoromethane | 108 | (73 - 118) |
| | 107 | (73 - 118) |
| 1,2-Dichloroethane-d4 | 109 | (62 - 128) |
| | 112 | (62 - 128) |
| 4-Bromofluorobenzene | 98 | (78 - 118) |
| | 94 | (78 - 118) |
| Toluene-d8 | 96 | (77 - 117) |
| | 95 | (77 - 117) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# HOLD TIME REPORT

Cameron-Cole LLC

Wichita, KS

**HOLD TIME REPORT**

**Lab:** GCMS VOA

| Lab ID # | Well ID | Collection Date | Method | Ext Dif | Ana Dif | Ext Hold | Ana Hold | Extraction Date | Analysis Date | Method Description |
|---|---|---|---|---|---|---|---|---|---|---|
| D5C180252001 | SK-13S | 03/17/05 14:20 | | | | | | | | |
| | | | 8260B | | 7 | | 14 | | 03/24/05 15:52 | VOA |
| D5C180252002 | TRIP BLANK | 03/17/05 00:00 | | | | | | | | |
| | | | 8260B | | 7 | | 14 | | 03/24/05 16:13 | VOA |

# Chain of Custody Record

2.4 (OSV) 3-18-05

SEVERN TRENT **STL**
**Severn Trent Laboratories, Inc.**

**STL Denver**
4955 Yarrow Street
Arvada, CO 80002

20

STL-4124 (0901)

| Client | Project Manager | Date | Chain of Custody Number |
|---|---|---|---|
| Cameron-Cole | Janette Wilson | 3-17-05 | 318746 |

| Address | Telephone Number (Area Code)/Fax Number | Lab Number | Page |
|---|---|---|---|
| 5777 Central Ave., Ste 100 | (303)938-5560 / (303)938-5520 | | 1 of 1 |

| City | State | Zip Code | Site Contact | Lab Contact |
|---|---|---|---|---|
| Boulder | CO | 80301 | | |

| Project Name and Location (State) | Carrier/Waybill Number |
|---|---|
| Clean Harbors, KS | Fed EX |

Contract/Purchase Order/Quote No.: 1808-3-11

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | | Analysis (Attach list if more space is needed): 8260B | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SK-13S | 3-17-05 | 14:20 | | X | | | | | | | X | | | | X | |
| Trip Blank | | | | X | | | | | | | X | | | | X | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify)

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: Sarah E Water | 3-17-05 | 17:00 | 1. Received By: David F. Bourgeny | 3/18/05 | 0915 |
| 2. Relinquished By | | | 2. Received By | | |
| 3. Relinquished By | | | 3. Received By | | |

Comments: Shipped via Fed Ex Overnight

DISTRIBUTION: [illegible] - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy